

STIC-Biotech/ChemLib

96369

From: Ramirez, Delia
Sent: Wednesday, June 11, 2003 12:43 PM
To: STIC-Biotech/ChemLib
Subject: case 09/911,860

Hi,

I would like to request the following search (commercial and interference):

1. a standard search of seq id 3 in the nucleic acid databases.

Thank you,

Delia M. Ramirez, Ph.D.
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Recombinant Enzymes-Art Unit 1652
USPTO
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CRPE

Edward Hart
Technical Info. Specialist
STIC/Biotech
CMI 6B02 Tel: 305-9203

Searcher: _____
Phone: _____
Location: _____
Date Picked Up: 6/13/03
Date Completed: 6/19/03
Searcher Prep/Review: _____
Clerical: _____
Online time: _____

TYPE OF SEARCH:
NA Sequences: _____ /
AA Sequences: _____
Structures: _____
Bibliographic: _____
Litigation: _____
Full text: _____
Patent Family: _____
Other: _____

VENDOR/COST (where applic.)
STN: _____
DIALOG: _____
Questel/Orbit: _____
DRLink: _____
Lexis/Nexis: _____
Sequence Sys.: Q1 _____
WWW/Internet: _____
Other (specify): _____

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on:

June 19, 2003, 07:32:37 ; Search time 238 Seconds

(without alignments)

170.319 Million cell updates/sec

Title: US-09-911-860A-3

Score: 18

Sequence: gtttcggaaactgaaagg 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 2185239 seqs, 1125999159 residues

Total number of hits satisfying chosen parameters: 4370478

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : N_Geneseq_101002:*

1: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1980.DAT:*

2: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1981.DAT:*

3: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1982.DAT:*

4: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1983.DAT:*

5: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1984.DAT:*

6: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1985.DAT:*

7: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1986.DAT:*

8: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1987.DAT:*

9: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1988.DAT:*

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12: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1991.DAT:*

13: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:*

14: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT:*

15: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1994.DAT:*

16: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1995.DAT:*

17: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT:*

18: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT:*

19: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1998.DAT:*

20: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:*

21: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:*

22: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:*

23: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:*

24: /SIDS2/gcgdata/geneseq/geneseqn-emb1/NA2002.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result

No.	Score	Query Length	DB ID	Description
1	18	100.0	18 24	ABK14145 Chlorinated ethylene
2	18	100.0	1212 22	ABG62239 A 16S rRNA sequenc
3	18	100.0	1212 22	A 16S rDNA sequenc
4	18	100.0	1212 22	A 16S rDNA sequenc
5	18	100.0	1212 22	A 16S rDNA sequenc
6	18	100.0	1335 22	A 16S rDNA sequenc
7	18	100.0	1443 22	A 16S rDNA sequenc
8	15.4	85.6	244 24	Human prostate spe
9	15.4	85.6	531 24	Human prostate spe

Human foetal liver
Human foetal liver
Probe #9221 for ge
Probe #19604 for g
Human brain expres
Human brain expres
Human bone marrow
Human bone marrow
Human genome-deriv
Mammalian AMPK alp
Knockout mouse dis
Drosophila melanog
Drosophila melanog
Human cancer assoc
Human ovarian tumo
Human immune/haema
Drosophila melanog
Human fascin DNA f
Drosophila melanog
Human cardiovascul
CDNA sequence #203
Enterococcus faec
MAGE-B cluster DNA
ACNPV ORF 53; resi
Vancomycin resist
Human digestive sy
Human liver associ
Human liver antiq
Drosophila melanog

ALIGNMENTS

RESULT 1
ID ABK14145 standard; DNA; 18 BP.
ID ABK14145

AC ABK14145:

XX DT 08-MAY-2002 (first entry)

XX DE Chlorinated ethylene-decomposing bacteria detection DNA KWI-De3.

XX KW Chlorinated ethylene-decomposing bacteria; 16S rRNA; 16S rDNA; ss; probe;

KW PCR; primer; soil; undergrown water; chlorinated ethylene; KWI-De3;
chlorinated ethane; Dehalococcoides.

XX OS Synthetic.

XX PN EP1176216-A2.

XX PD 30-JAN-2002.

XX PF 23-JUL-2001; 2001EP-0117844.

XX PR 24-JUL-2000; 2000JP-0227580.

XX PR 09-MAR-2001; 2001JP-0066001.

XX PA (KURK) KURITA WATER IND LTD.

XX PI Nakamura K, Ueno T;

XX DR WPI; 2002-173127/23.

PT New nucleic acid for detecting chlorinated ethylene-decomposing

PT bacteria used to purify soil or underground water contaminated with chlorinated ethylene or ethane
 XX
 PS Claim 1; Page 7; 22pp; English.

CC The invention relates to a nucleic acid which hybridises to the 16S ribosomal (deoxy)ribonucleic acid of chlorinated ethylene-decomposing bacteria. The nucleic acid can be used as a labelled probe for detecting chlorinated ethylene-decomposing bacteria (e.g. Dehalococcoides) comprising the novel nucleic acid by DNA hybridisation using the labelled probe as an indicator. The bacteria can also be detected by performing PCR using the nucleic acid as a primer and the sample nucleic acid as a template, and detecting newly synthesised DNA. A method for decomposing chlorinated ethylene or ethane comprises detecting chlorinated ethylene-decomposing bacteria using underground water or soil as a sample, and introducing the water/soil containing the bacteria, to soil or underground water contaminated by chlorinated ethylene or ethane. The methods are therefore useful for purifying soil or underground water contaminated with chlorinated ethylene or ethane. This sequence represents a nucleic acid which hybridises to nucleic acid of chlorinated ethylene-decomposing bacteria.

XX Sequence 18 BP; 5 A; 3 C; 7 G; 3 T; 0 other;
 SQ Query Match 100.0%; Score 18; DB 24; Length 18;
 Best Local Similarity 100.0%; Pred. No. 5; Mismatches 0; Indels 0; Gaps 0;
 Matches 18; Conservative 0;
 QY 1 GCTTCGGGAACCTGAGG 18
 Db 1 GCTTCGGGAACCTGAGG 18

RESULT 2

AAC62239 AAC62239 standard; DNA; 1212 BP.
 XX
 AC AAC62239;
 XX
 DT 19-MAR-2001 (first entry)
 XX
 DE A 16S rDNA sequence indicative of a chlorinating bacterial strain.
 XX
 KW 16S rRNA; dechlorinating activity; chlorinated compound; vinyl chloride; carbonetrachloride; tetrachloroethane; chloroform; dichloromethane; trichloroethane; dichloroethylene; chlorinating bacteria; ss.
 KW OS Dehalococcoides ethenogenes.
 XX PN WO200053443-A2.
 XX PD 26-OCT-2000.
 XX PF 13-APR-2000; 2000WO-US09883.
 XX PR 15-APR-1999; 99US-012951.
 XX PR (DUPO) DU PONT DE NEMOURS & CO E I.
 XX PI Hendrickson ER, Ebersole RC;
 XX DR WPI; 2001-034581/03.
 XX PT New 16S rDNA profile derived from Dehalococcoides ethenogenes and PT indicative of a dechlorinating bacterial strain -
 XX PS Claim 1; Page 48; 55pp; English.
 XX
 CC The present sequence represents the 16S rDNA profile of Dehalococcoides ethenogenes strain DAB, isolated from soil surrounding an industrial site. The 16S rDNA profile is linked to dechlorinating activity. Bacterial strain comprising the 16S rDNA sequence of the invention are useful for the dechlorination of chlorinated compounds such as carbonetrachloride, tetrachloroethane, chloroform, dichloromethane, trichloroethane, dichloroethylene, vinyl chloride, and chloroaromatics. The 16S rDNA sequence is also useful for identification of new chlorinating bacteria, as well as sub-typing strains of Dehalococcoides ethenogenes.

XX Sequence 1212 BP; 318 A; 253 C; 372 G; 269 T; 0 other;
 SQ Query Match 100.0%; Score 18; DB 22; Length 1212;
 Best Local Similarity 100.0%; Pred. No. 9; Mismatches 0; Indels 0; Gaps 0;
 Matches 18; Conservative 0;
 QY 1 GCTTCGGGAACCTGAGG 18
 Db 112 GCTTCGGGAACCTGAGG 129

PT indicative of a dechlorinating bacterial strain -
 XX
 PS Claim 1; Page 47-48; 55pp; English.

XX The present sequence represents the 16S rDNA profile of Dehalococcoides
 CC ethenogenes strain STF, isolated from soil surrounding an industrial
 site. The 16S rDNA profile is linked to dechlorinating activity.
 CC Bacterial strain comprising the 16S rDNA sequence of the invention are
 useful for the dechlorination of chlorinated compounds such as
 CC carbonetrachloride, tetrachloroethane, chloroform, dichloromethane,
 CC trichloroethane, dichloroethylene, vinyl chloride, and chloroaromatics.
 CC The 16S rDNA sequence is also useful for identification of new
 CC chlorinating bacteria, as well as sub-typing strains of Dehalococcoides
 CC ethenogenes.
 XX Sequence 1335 BP; 348 A; 288 C; 403 G; 296 T; 0 other:
 Query Match 100.0%; Score 18; DB 22; Length 1335;
 Best Local Similarity 100.0%; Pred. No. 9.7; Mismatches 0; Indels 0; Caps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GCTTGGGAACTGAGG 18
 Db 112 GCTTGGGAACTGAGG 129

RESULT 7
 AAC62244
 ID AAC62244 standard; DNA; 1443 BP.
 XX
 AC AAC62244:
 XX
 DT 19-MAR-2001 (first entry)
 XX
 DE A 16S rDNA sequence indicative of a chlorinating bacterial strain.
 XX
 KW 16S rRNA; dechlorinating activity; chlorinated compound; vinyl chloride;
 KW carbontetrachloride; tetrachloroethane; chloroform; dichloromethane;
 KW trichloroethane; dichloroethylene; chlorinating bacteria; ss.
 XX
 OS Dehalococcoides ethenogenes.
 XX
 WO200053443-A2.
 XX
 PN 26-OCT-2000.
 XX
 PF 13-APR-2000; 2000WO-US09883.
 XX
 PR 15-APR-1999; 99US-0129511.
 XX
 PA (DUPO) DU PONT DE NEMOURS & CO E I.
 XX
 PI Hendrickson ER, Ebbersole RC;
 XX
 DR MPI; 2001-024581/03.
 XX
 PT New 16S rDNA profile derived from Dehalococcoides ethenogenes and
 PT indicative of a dechlorinating bacterial strain -
 XX
 PS Example 2; Page 49-50; 55pp; English.

XX The present sequence represents the 16S rDNA profile of Dehalococcoides
 CC ethenogenes strain 195. The 16S rDNA profile is linked to dechlorinating
 CC activity. Bacterial strain comprising the 16S rDNA sequence of the
 CC invention are useful for the dechlorination of chlorinated compounds such
 CC as carbontetrachloride, tetrachloroethane, chloroform, dichloromethane,
 CC trichloroethane, dichloroethylene, vinyl chloride, and chloroaromatics.
 CC The 16S rDNA sequence is also useful for identification of new
 CC chlorinating bacteria, as well as sub-typing strains of Dehalococcoides
 CC ethenogenes.
 XX Sequence 1443 BP; 379 A; 306 C; 443 G; 314 T; 1 other;

Query Match 100.0%; Score 18; DB 22; Length 1443;
 Best Local Similarity 100.0%; Pred. No. 9.7; Mismatches 0; Indels 0; Caps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 GCTTGGGAACTGAGG 18
 Db 112 GCTTGGGAACTGAGG 129

RESULT 8
 ABN8763/c
 ID ABN8763 standard; cDNA; 244 BP.
 XX
 AC ABN8763;
 XX
 DT 08-AUG-2002 (first entry)
 XX
 DE Human prostate specific gene cDNA sequence SEQ ID NO:14.
 XX
 PR Human; Prostate specific gene; prostate specific protein; PSG; PSP;
 KW prostate cancer; gene; ss.
 XX
 OS Homo sapiens.
 XX
 WO200236808-A2.
 XX
 PD 10-MAY-2002.
 XX
 PI 05-NOV-2001; 2001WO-US47283.
 XX
 PR 03-NOV-2000; 2000US-245740P.
 XX
 PA (DIAD) DIADEXUS INC.
 XX
 PI Sun Y, Recipon H, Chen S, Liu C;
 XX
 DR WPI; 2002-471506/50.
 XX
 PT New prostate-specific nucleic acids and polypeptides, useful for
 PT identifying, diagnosing, monitoring, staging, imaging, and treating
 PT prostate cancer and non-cancerous disease states in prostate tissue -
 XX
 PS Claim 1; Page 165; 254PP; English.
 XX
 ABP87650 to ABN87789 represent human prostate-specific nucleic acids (I),
 CC and ABP8792 to ABP87925 represent human prostate-specific proteins (II),
 CC from the present invention. (I) and (II) have cytostatic activity. (I)
 CC can be used in gene therapy. The prostate-specific nucleic acids,
 CC polypeptides and compositions from the present invention can be used for
 CC identifying, diagnosing, monitoring, staging, imaging, and treating
 CC prostate cancer and non-cancerous disease states in prostate tissue; for
 CC identifying prostate tissue; for monitoring, identifying and/or designing
 CC agonists and antagonists of the polypeptides; in gene therapy; in
 CC producing transgenic animals and cells; for producing engineered prostate
 CC tissue for treatment and research; and as elements in an array or
 CC computer program for pattern recognition of prostate disorders. The
 CC nucleic acids may be used as hybridization probes to detect, characterise
 CC and quantify hybridising nucleic acids in, and isolate hybridising
 CC nucleic acids from, both genomic and transcript-derived nucleic acid
 CC samples.
 XX Sequence 244 BP; 56 A; 73 C; 64 G; 51 T; 0 other;
 Query Match 85.6%; Score 15.4; DB 24; Length 244;
 Best Local Similarity 94.1%; Pred. No. 1.8e+02; Mismatches 1; Indels 0; Gaps 0;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1 GCTTGGGAACTGAG 17
 Db 27 GCTTGGGAACTGAG 11

RESULT 9

ABN87664
 ID ABN87664 standard; cDNA; 531 BP.
 XX
 AC
 XX
 ABN87664;
 XX
 DT 08-AUG-2002 (first entry)
 XX
 DE Human prostate specific gene cDNA sequence SEQ ID NO:15.
 XX
 KW Human; prostate specific gene; prostate specific protein; PSG; PSP;
 XX prostate cancer; chromosome 8; gene; ss.
 OS Homo sapiens.
 XX
 PN WO200236008-A2.
 XX
 PD 10-MAY-2002.
 XX
 PF 05-NOV-2001; 2001WO-US47283.
 XX
 PR 03-NOV-2000; 2000US-245740P.
 XX
 PA (DIAD-) DIADEXUS INC.
 XX
 PI Sun Y, Recipon H, Chen S, Liu C;
 XX
 DR WPI; 2002-471506/50.
 XX
 PT New prostate-specific nucleic acids and polypeptides, useful for identifying, diagnosing, monitoring, staging, imaging, and treating prostate cancer and non-cancerous disease states in prostate tissue -
 XX
 PS Claim 1; Page 165; 254pp; English.
 XX
 CC ABN87650 to ABN87789 represent human prostate-specific nucleic acids (I), and ABB7192 to ABB7295 represent human prostate-specific proteins (II) from the present invention. (I) and (II) have cytostatic activity; (I) can be used in gene therapy. The prostate-specific nucleic acids, polypeptides and compositions from the present invention can be used for identifying, diagnosing, monitoring, staging, imaging, and treating prostate cancer and non-cancerous disease states in prostate tissue; for identifying prostate tissue; for monitoring, identifying and/or designing agonists and antagonists of the polypeptides; in gene therapy; in producing transgenic animals and cells; for producing engineered prostate tissue for treatment and research; and as elements in an array or computer program for pattern recognition of prostate disorders. The nucleic acids may be used as hybridisation probes to detect, characterise nucleic acids from, both genomic and transcript-derived nucleic acid samples.
 XX
 SQ Sequence 531 BP; 102 A; 147 C; 143 G; 135 T; 4 other;
 XX
 Query Match 85.6%; Score 15.4; DB 24; Length 531;
 Best Local Similarity 94.1%; Pred. No. 2e+02;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Oy 1 GCTTGGGAACGTGAG 17
 ||| 1111111111111111
 Db 505 GCTTGGGAACGTGAG 521
 XX
 RESULT 11
 SQ Sequence 560 BP; 132 A; 134 C; 126 G; 168 T; 0 other;
 XX
 Query Match 85.6%; Score 15.4; DB 22; Length 560;
 Best Local Similarity 94.1%; Pred. No. 2e+02;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 GCTTCCGGAACGTGAG 17
 ||| 1111111111111111
 Db 64 GCTTCCGGAACGTGAG 80
 XX
 ID ABA76630 standard; DNA; 560 BP.
 XX
 AC ABA76630;
 XX
 DT 01-FEB-2002 (first entry)
 XX
 DE Human foetal liver single exon nucleic acid probe #24935.
 XX
 KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200157277-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 30-JAN-2001; 2001WO-US00669.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0633266.
 PR 21-SEP-2000; 2000US-0231687.
 PR 27-SEP-2000; 2000US-0230359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PR Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR WPI; 2001-483447/52.
 XX
 PT Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver -
 XX
 PS Claim 1; SEQ ID NO 11865; 639pp + sequence listing; English.
 XX
 CC The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human foetal liver. The present sequence is a single exon nucleic acid probe of the invention.
 CC Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences.
 XX
 SQ Sequence 560 BP; 132 A; 134 C; 126 G; 168 T; 0 other;
 XX
 Query Match 85.6%; Score 15.4; DB 22; Length 560;
 Best Local Similarity 94.1%; Pred. No. 2e+02;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Oy 1 GCTTCCGGAACGTGAG 17
 ||| 1111111111111111
 Db 64 GCTTCCGGAACGTGAG 80
 XX
 ID ABA76630 standard; DNA; 560 BP.
 XX
 AC ABA76630;
 XX
 DT 01-FEB-2002 (first entry)
 XX
 DE Human foetal liver single exon nucleic acid probe #24935.
 XX
 KW Human; foetal liver; gene expression; single exon nucleic acid probe; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200157277-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 30-JAN-2001; 2001WO-US00669.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 26-MAY-2000; 2000US-0207456.
 PR 30-JUN-2000; 2000US-0608408.
 PR 03-AUG-2000; 2000US-0633266.

PR 21-SEP-2000; 2000US-0234687.
 PR XX
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR WPI; 2001-483447/52.
 XX
 PT Human genome-derived single exon nucleic acid probes useful for analyzing gene expression in human fetal liver.
 XX
 PS Claim 4; SEQ ID NO 24935; 639pp + sequence listing; English.
 XX
 CC The invention relates to a single exon nucleic acid probe for measuring human gene expression in a sample derived from human foetal liver. The single exon nucleic acid probes may be used for predicting, measuring and displaying gene expression in samples derived from human fetal liver. The present sequence is a single exon nucleic acid probe of the invention.
 Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp://wipo.int/pub/published_pct_sequences.
 CC Sequence 560 BP; 132 A; 134 C; 126 G; 168 T; 0 other;
 CC Best Local Similarity 85.6%; Score 15.4; DB 22; Length 560;
 CC Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 CC Qy 1 GCTTCGGAAACTGAG 17
 CC Db 64 GCTTCGGAAACTGAG 80
 YY
 RESULT 12
 ABA30755
 ID ABA30755 standard; DNA; 560 BP.
 XX
 AC ABA30755;
 XX
 DT 23-JAN-2002 (first entry)
 DE Probe #9221 for gene expression analysis in human heart cell sample.
 XX
 KW Human; gene expression; heart; microarray; vascular system; probe;
 KW cardiovascular disease; hypertension; cardiac arrhythmia;
 XX
 OS Homo sapiens.
 XX
 PN WO200157274-A2.
 XX
 PD 09-AUG-2001.
 XX
 PF 30-JAN-2001; 2001WO-US00666.
 XX
 PR 04-FEB-2000; 2000US-0180312.
 PR 25-MAY-2000; 2000US-0207455.
 PR 30-JUN-2000; 2000US-060408.
 PR 03-AUG-2000; 2000US-0632366.
 PR 21-SEP-2000; 2000US-0234687.
 PR 27-SEP-2000; 2000US-0236359.
 PR 04-OCT-2000; 2000GB-0024263.
 XX
 PA (MOLE-) MOLECULAR DYNAMICS INC.
 XX
 PI Penn SG, Hanzel DK, Chen W, Rank DR;
 XX
 DR WPI; 2001-488899/53.
 XX
 PT Single exon nucleic acid probes for analyzing gene expression in human hearts.
 XX
 PS Claim 4; SEQ ID NO 19604; 530pp; English.
 XX
 CC The present invention relates to single exon nucleic acid probes for measuring human gene expression in a sample derived from human heart. The present sequence is one such probe. The probes may be used for predicting, measuring and displaying gene expression in samples derived

CC from the human heart via microarrays. By measuring gene expression, the
 CC probes are useful for predicting, diagnosing, grading, staging,
 CC monitoring and prognosis diseases of the human heart and vascular system
 CC e.g. cardiovascular disease, hypertension, cardiac arrhythmias and
 CC congenital heart disease.
 Note: The sequence data for this patent did not form part of the printed
 CC specification, but was obtained in electronic format directly from WIPO
 CC at ftp.wipo.int/pub/pct/sequences.

xx

SQ Sequence 560 BP; 132 A; 134 C; 126 G; 168 T; 0 other;

Query Match 85.6%; Score 15.4; DB 22; Length 560;

Best Local Similarity 94.1%; Pred. No. 2e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Db 64 GCTTCGGAAACTGAG 80

Qy 1 GCTTCGGAAACTGAG 17

Db 64 GCTTCGGAAACTGAG 80

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 Qy 1 GCTTCGGAAACTGAG 17
 Db 64 GCTTCGGAAACTGAG 80

RESULT 15

ID AAK25265 standard; DNA; 560 BP.

XX

AC AAK25265;

XX

DT 05-NOV-2001 (first entry)

XX

DE Human brain expressed single exon probe SEQ ID NO: 25256.

XX

KW Human; brain expressed exon; gene expression analysis; probe;

KW microarray; Alzheimer's disease; multiple sclerosis; schizophrenia;

KW epilepsy; cancer; ss.

XX

OS Homo sapiens.

XX

PN WO200157275-A2.

XX

PD 09-AUG-2001.

XX

PF 30-JAN-2001; 2001WO-US00667.

XX

PR 04-FEB-2000; 2000US-0180312.

PR 26-MAY-2000; 2000US-0207456.

PR 30-JUN-2000; 2000US-0608408.

PR 03-AUG-2000; 2000US-0632366.

PR 21-SEP-2000; 2000US-0224687.

PR 27-SEP-2000; 2000US-0226359.

PR 04-OCT-2000; 2000GB-0024263.

XX

PA (MOLE-) MOLECULAR DYNAMICS INC.

XX

PI Penn SG, Hanzel DK, Chen W, Rank DR;

XX

DR WPI; 2001-483446/52.

XX

PT Single exon nucleic acid probes for analyzing gene expression in human brains

XX

PS Example 4; SEQ ID NO: 25256; 650pp + sequence listing; English.

XX

CC The present invention provides a number of single exon nucleic acid probes which are derived from genomic sequences expressed in the human brain. They can be used to measure gene expression in brain cell samples, which may enable the diagnosis and improved treatment of nervous system diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia, epilepsy and cancers. The present sequence is one of the probes of the invention.

XX

SQ Sequence 560 BP; 132 A; 134 C; 126 G; 168 T; 0 other;

Query Match 85.6%; Score 15.4; DB 22; Length 560;

Best Local Similarity 94.1%; Pred. No. 2e+02;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GCTTCGGAAACTGAG 17

Db 64 GCTTCGGAAACTGAG 80

Search completed: June 19, 2003, 08:48:43

Job time : 245 secs

Example 4: SEQ ID NO: 12079; 650pp + sequence listing; English.

The present invention provides a number of single exon nucleic acid probes which are derived from genomic sequences expressed in the human brain. They can be used to measure gene expression in brain cell samples, which may enable the diagnosis and improved treatment of nervous system diseases such as Alzheimer's disease, multiple sclerosis, schizophrenia, epilepsy and cancers. The present sequence is one of the probes of the invention.

Sequence 560 BP; 132 A; 134 C; 126 G; 168 T; 0 other;

Query Match 85.6%; Score 15.4; DB 22; Length 560;

Best Local Similarity 94.1%; Pred. No. 2e+02;

Length 560;

Best Local Similarity 94.1%; Pred. No. 2e+02;

Length 560;

Query Match 85.6%; Score 15.4; DB 22; Length 560;

Best Local Similarity 94.1%; Pred. No. 2e+02;

APPLICANT: HENDRICKSON, EDWIN
 TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 CURRENT APPLICATION NUMBER: US/10/061,071
 CURRENT FILING DATE: 2002-01-29
 PRIOR APPLICATION NUMBER: US 60/129,511
 PRIOR FILING DATE: 1999-04-15
 NUMBER OF SEQ ID NOS: 103
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 2
 LENGTH: 1377
 TYPE: DNA
 ORGANISM: Dehalococcoides ethenogenes strain PL
 US-10-061-071-2

Query Match 100.0%; Score 18; DB 9; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 2,6; Mismatches 0; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTTCGGGAACCTGAAGG 18
 Db 112 GCTTCGGGAACCTGAAGG 129

RESULT 3
 US-10-061-071-4
 Sequence 4 Application US/10061071
 Publication No. US20030077601A1
 GENERAL INFORMATION:
 APPLICANT: E.-I. DUPONT DE NEMOURS & COMPANY
 APPLICANT: HENDRICKSON, EDWIN
 TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 TITLE OF INVENTION: BACTERIA
 FILE REFERENCE: BC1002 US CIP
 CURRENT APPLICATION NUMBER: US/10/061,071
 CURRENT FILING DATE: 2002-01-29
 PRIOR APPLICATION NUMBER: US 60/129,511
 CURRENT FILING DATE: 2002-01-29
 PRIOR APPLICATION NUMBER: US 60/129,511
 PRIOR FILING DATE: 1999-04-15
 PRIOR APPLICATION NUMBER: 60/129,511
 PRIOR FILING DATE: 1999-04-15
 NUMBER OF SEQ ID NOS: 103
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 4
 LENGTH: 1377
 TYPE: DNA
 ORGANISM: Dehalococcoides ethenogenes strain DAB
 US-10-061-071-4

Query Match 100.0%; Score 18; DB 9; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 2,6; Mismatches 0; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTTCGGGAACCTGAAGG 18
 Db 112 GCTTCGGGAACCTGAAGG 129

RESULT 4
 US-10-061-071-5
 Sequence 5 Application US/10061071
 Publication No. US20030077601A1
 GENERAL INFORMATION:
 APPLICANT: E.-I. DUPONT DE NEMOURS & COMPANY
 APPLICANT: HENDRICKSON, EDWIN
 TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 TITLE OF INVENTION: BACTERIA
 FILE REFERENCE: BC1002 US CIP
 CURRENT APPLICATION NUMBER: US/10/061,071
 CURRENT FILING DATE: 2002-01-29
 PRIOR APPLICATION NUMBER: US 60/129,511
 PRIOR FILING DATE: 1999-04-15
 PRIOR APPLICATION NUMBER: 60/129,511
 NUMBER OF SEQ ID NOS: 103
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 5
 LENGTH: 1377
 TYPE: DNA
 ORGANISM: Dehalococcoides ethenogenes strain PIN
 US-10-061-071-5

Query Match 100.0%; Score 18; DB 9; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 2,6; Mismatches 0; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTTCGGGAACCTGAAGG 18
 Db 112 GCTTCGGGAACCTGAAGG 129

RESULT 5
 US-10-061-071-6
 Sequence 6 Application US/10061071
 Publication No. US20030077601A1
 GENERAL INFORMATION:
 APPLICANT: E.-I. DUPONT DE-NEMOURS & COMPANY
 APPLICANT: HENDRICKSON, EDWIN
 TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 TITLE OF INVENTION: BACTERIA
 FILE REFERENCE: BC1002 US CIP
 CURRENT APPLICATION NUMBER: US/10/061,071
 CURRENT FILING DATE: 2002-01-29
 PRIOR APPLICATION NUMBER: US 60/129,511
 PRIOR FILING DATE: 1999-04-15
 PRIOR APPLICATION NUMBER: 60/129,511
 NUMBER OF SEQ ID NOS: 103
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 6
 LENGTH: 1377
 TYPE: DNA
 ORGANISM: Dehalococcoides ethenogenes strain Dlu
 US-10-061-071-6

Query Match 100.0%; Score 18; DB 9; Length 1377;
 Best Local Similarity 100.0%; Pred. No. 2,6; Mismatches 0; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTTCGGGAACCTGAAGG 18
 Db 112 GCTTCGGGAACCTGAAGG 129

RESULT 6
 US-10-061-071-3
 Sequence 3 Application US/10061071
 Publication No. US20030077601A1
 GENERAL INFORMATION:
 APPLICANT: E.-I. DUPONT DE NEMOURS & COMPANY
 APPLICANT: HENDRICKSON, EDWIN
 TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
 FILE REFERENCE: BC1002 US CIP
 CURRENT APPLICATION NUMBER: US/10/061,071
 CURRENT FILING DATE: 2002-01-29
 PRIOR APPLICATION NUMBER: US 60/129,511
 PRIOR FILING DATE: 1999-04-15
 PRIOR APPLICATION NUMBER: 60/129,511
 NUMBER OF SEQ ID NOS: 103
 SOFTWARE: Microsoft Office 97
 SEQ ID NO 3
 LENGTH: 1378

Query Match ; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes strain V/SFD
; US-10-061-071-3

Best Local Similarity 100.0%; Score 18; DB 9; Length 1378;
; Best Local Similarity 100.0%; Pred. No. 2,6; ; Mismatches 0;
; Matches 18; Conservative 0; Indels 0; Gaps 0;

Qy 1 GCTTCGGGAACCTGAGG 18
Db 112 GCTTCGGGAACCTGAGG 129

RESULT 7
US-10-061-071-7
; Sequence 7, Application US/10061071
; Publication No. US20030077601A1
; GENERAL INFORMATION:
; APPLICANT: E.I. DUPONT DE NEMOURS & COMPANY
; APPLICANT: HENDRICKSON, EDWIN
; TITLE OF INVENTION: NUCLEIC ACID FRAGMENTS FOR THE IDENTIFICATION OF DECHLORINATING
; FILE REFERENCE: BC1002 US CIP
; CURRENT APPLICATION NUMBER: US/10/061,071
; CURRENT FILING DATE: 2002-01-29
; PRIOR APPLICATION NUMBER: US 60/129,511
; PRIOR FILING DATE: 1999-04-15
; PRIORITY NUMBER: 60/129,511
; NUMBER OF SEQ ID NOS: 103
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 7
; LENGTH: 1443

Query Match ; TYPE: DNA
; ORGANISM: Dehalococcoides ethenogenes strain 195
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (1353)..(1353)
; OTHER INFORMATION: N= unknown

Qy 1 GCTTCGGGAACCTGAGG 18
Db 112 GCTTCGGGAACCTGAGG 129

RESULT 8
US-09-878-574-6798
; Sequence 6798, Application US/09878574
; Patent No. US20030110548A1
; GENERAL INFORMATION:
; APPLICANT: Byrum, Joseph R.
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Thompson, Michael D.
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated with
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(15401)B
; CURRENT APPLICATION NUMBER: US/09/878,574
; CURRENT FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 09/733,535
; PRIOR FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 15775
; SEQ ID NO 6798
; LENGTH: 207

Query Match ; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701099017H1

Qy 1 GCTTCGGGAACCTGAGG 18
Db 40 GCTTCGGGAACCTGAGG 57

RESULT 9
US-10-011-585A-14/C
; Sequence 14, Application US/10011585A
; Publication No. US20030039986A1
; GENERAL INFORMATION:
; APPLICANT: Sun, Yongming
; APPLICANT: Recipon, Herve
; APPLICANT: Chen, Sei-Yu
; APPLICANT: Liu, Changhua
; TITLE OF INVENTION: Compositions and Methods Relating to Prostate Specific
; FILE REFERENCE: DEX-0261
; CURRENT APPLICATION NUMBER: US/10/011,585A
; CURRENT FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: 60/245,740
; PRIOR FILING DATE: 2000-11-03
; NUMBER OF SEQ ID NOS: 245
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO 14
; LENGTH: 244
; TYPE: DNA
; ORGANISM: Homo sapiens
; SEQ ID NO 14

Query Match ; TYPE: DNA
; ORGANISM: Homo sapiens
; SEQ ID NO 14

RESULT 10
US-09-918-995-36193
; Sequence 36193, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36193
; LENGTH: 459
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (1)..(459)
; OTHER INFORMATION: n = A,T,C or G

Query Match ; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (1)..(459)
; OTHER INFORMATION: n = A,T,C or G

Qy 1 GCTTCGGGAACCTGAGG 17
Db 27 GCTTCGGGAACCTGAG 11

RESULT 11
US-09-918-995-36193
; Sequence 36193, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
; APPLICANT: Hyseq, Inc.
; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
; FILE REFERENCE: 20411-756
; CURRENT APPLICATION NUMBER: US/09/918,995
; CURRENT FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: US/09/235,076
; PRIOR FILING DATE: 1999-01-20
; NUMBER OF SEQ ID NOS: 38054
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 36193
; LENGTH: 459
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc-feature
; LOCATION: (1)..(459)
; OTHER INFORMATION: n = A,T,C or G

Query Match ; TYPE: DNA
; ORGANISM: Glycine max
; OTHER INFORMATION: Clone ID: 701099017H1

Qy 1 GCTTCGGGAACCTGAG 17
Db 27 GCTTCGGGAACCTGAG 11

Db 112 GCTTCGGAAACAGAAG 128

Publication No. US20030039986A1
GENERAL INFORMATION:

APPLICANT: Sun, Yongming

APPLICANT: Recipon, Herve

APPLICANT: Liu, Chenghua

APPLICANT: Chen, Sei-Yu

TITLE OF INVENTION: Compositions and Methods Relating to Prostate Specific

FILE REFERENCE: DE1-0261

CURRENT APPLICATION NUMBER: US/10/011,585A

PRIORITY FILING DATE: 2002-01-14

PRIOR APPLICATION NUMBER: 60/245,740

PRIORITY FILING DATE: 2000-11-03

NUMBER OF SEQ ID NOS: 245

SOFTWARE: PatentIn Ver. 2.1

SEQ ID NO 15

LENGTH: 531

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: unsure

LOCATION: (202)

OTHER INFORMATION: a, c, g or t

NAME/KEY: unsure

LOCATION: (211)..(212)

OTHER INFORMATION: a, c, g or t

NAME/KEY: unsure

LOCATION: (217)

OTHER INFORMATION: a, c, g or t

US-10-011-585A-15

RESULT 11

Sequence 314, Application US/10102524

Publication No. US20030109434A1

GENERAL INFORMATION:

APPLICANT: Algate, Paul A.

APPLICANT: Mainion, Jane

APPLICANT: Gaiger, Alexander

APPLICANT: Harlocker, Susan L.

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE

FILE REFERENCE: 210121.572

CURRENT APPLICATION NUMBER: US/10/102,524

PRIORITY FILING DATE: 2002-03-19

NUMBER OF SEQ ID NOS: 1863

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 314

LENGTH: 473

TYPE: DNA

ORGANISM: Homo sapiens

FEATURE:

NAME/KEY: misc_feature

LOCATION: 318..332, 427..437, 443..461, 463..470

OTHER INFORMATION: n = A,T,C or G

US-10-102-524-314

RESULT 12

US-09-998-598-63

Sequence 563, Application US/09998598

Patent No. US20020150922A1

GENERAL INFORMATION:

APPLICANT: Stoik, John A.

APPLICANT: Xu, Jiangchun

APPLICANT: Chenault, Ruth A.

APPLICANT: Meagher, Madeleine Joy

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND

TITLE OF INVENTION: DIAGNOSIS OF COLON CANCER

FILE REFERENCE: 210121..561

CURRENT APPLICATION NUMBER: US/09/998,598

CURRENT FILING DATE: 2001-11-16

NUMBER OF SEQ ID NOS: 2605

SOFTWARE: Corixa Invention Disclosure Database

SEQ ID NO 663

LENGTH: 507

TYPE: DNA

ORGANISM: Homo sapiens

US-09-998-598-63

Query Match Best Local Similarity 85.6%; Score 15.4; DB 10; Length 507;

Matches 16; Conservative: 0; Mismatches: 1; Indels: 0; Gaps: 0;

RESULT 13

US-10-011-585A-15

Sequence 15, Application US/10011585A

RESULT 14

US-09-864-761-9221

Sequence 9221, Application US/09864761

Patent No. US20020048763A1

GENERAL INFORMATION:

APPLICANT: Penn, Sharron G.

APPLICANT: Rank, David R.

APPLICANT: Hanzel, David K.

APPLICANT: Chen, Wensheng

TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FO

TITLE OF INVENTION: GENE EXPRESSION ANALYSIS BY MICROARRAY

FILE REFERENCE: A60nicaX-1

CURRENT APPLICATION NUMBER: US/09/864,761

CURRENT FILING DATE: 2001-01-23

PRIOR APPLICATION NUMBER: US 60/180,312

PRIOR FILING DATE: 2000-02-04

PRIOR APPLICATION NUMBER: US 60/236,359

PRIOR FILING DATE: 2000-09-27

PRIOR APPLICATION NUMBER: PCT/US01/00666

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: GB 24263 6

PRIOR FILING DATE: 2000-10-04

PRIOR APPLICATION NUMBER: PCT/US01/00667

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00664

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00669

PRIOR FILING DATE: 2001-01-30

PRIOR APPLICATION NUMBER: PCT/US01/00665

RESULT 13

US-10-011-585A-15

Sequence 15, Application US/10011585A

PRIOR FILING DATE: 2001-01-30 ;
 PRIOR APPLICATION NUMBER: PCT/US01/00668 ;
 PRIOR FILING DATE: 2001-01-30 ;
 PRIOR APPLICATION NUMBER: PCT/US01/00663 ;
 PRIOR FILING DATE: 2001-01-30 ;
 PRIOR APPLICATION NUMBER: PCT/US01/00662 ;
 PRIOR FILING DATE: 2001-01-30 ;
 PRIOR APPLICATION NUMBER: PCT/US01/00661 ;
 PRIOR FILING DATE: 2001-01-30 ;
 PRIOR APPLICATION NUMBER: PCT/US01/00670 ;
 PRIOR FILING DATE: 2001-01-30 ;
 PRIOR APPLICATION NUMBER: US 60/234,687 ;
 PRIOR FILING DATE: 2000-09-21 ;
 PRIOR APPLICATION NUMBER: US 09/608,408 ;
 PRIOR FILING DATE: 2000-06-30 ;
 PRIOR APPLICATION NUMBER: US 09/774,203 ;
 PRIOR FILING DATE: 2001-01-29 ;
 SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
 SEQ ID NO 9221
 LENGTH: 560
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 OTHER INFORMATION: MAP TO AP000041.1
 OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 2.6
 OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 1.7
 OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 1.3
 OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 2.4
 OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 2.1
 OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.5
 OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 2
 OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 1.9
 US-09-864-761-26458
 Query Match 85.6%; Score 15.4; DB 10; Length 560;
 Best Local Similarity 94.1%; Pred. No. 65; Mismatches 1; Indels 0; Gaps 0;
 Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1 GCTTCGGAACTGAG 17
 Db 64 GCTTCGGAACTGAG 80
 RESULT 15
 US-09-864-761-26458
 Sequence 26455, Application US/09864761
 Patent No. US20020048763A1
 GENERAL INFORMATION:
 APPLICANT: Penn, Sharron G.
 APPLICANT: Rank, David R.
 APPLICANT: Hanzel, David K.
 APPLICANT: Chen, Wenheng
 TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
 FILE REFERENCE: Econica X-1
 CURRENT APPLICATION NUMBER: US/09/864,761
 CURRENT FILING DATE: 2001-05-23
 PRIOR APPLICATION NUMBER: US 60/180,312
 PRIOR FILING DATE: 2000-02-04
 PRIOR APPLICATION NUMBER: US 60/207,456
 PRIOR FILING DATE: 2000-05-26
 PRIOR APPLICATION NUMBER: US 09/632,366
 PRIOR FILING DATE: 2000-08-03
 PRIOR APPLICATION NUMBER: GB 24263.6
 PRIOR FILING DATE: 2000-10-04
 PRIOR APPLICATION NUMBER: US 60/236,359
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: PCT/US01/00666
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00667
 PRIOR FILING DATE: 2001-01-30
 PRIOR APPLICATION NUMBER: PCT/US01/00664
 Search completed: June 19, 2003, 08:44:28
 Job time : 158 secs

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On nucleic - nucleic search, using sw model

Run on: June 19, 2003, 04:28:14 ; Search time 51 Seconds
(w/without alignments)
108,239 Million cell updates/sec

Title: US-09-911-860a-3
Perfect score: 18
Sequence: 1 gtttcggaaactgaaagg 18

Scoring table: IDENTITY.NUC

Searched: Gapop 10.0 , Gapext 1.0

Total number of hits satisfying chosen parameters: 882724

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*

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/cgn2_6/ptodata/1/ina/5A_COMB.seq:*

2:

/cgn2_6/ptodata/1/ina/5B_COMB.seq:*

3:

/cgn2_5/ptodata/1/ina/6A_COMB.seq:*

4:

/cgn2_5/ptodata/1/ina/6B_COMB.seq:*

5:

/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*

6:

/cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	15.4	85.6	1647	3 US-09-011-16-44
2	15.4	85.6	6773	4 US-09-166-350-27
3	15.4	83.3	40352	3 US-08-846-111D-15
4	15.4	83.3	40352	4 US-09-943-07-15
5	14.8	82.2	493765	4 US-09-103-840A-2
6	14.8	82.2	4911529	4 US-09-103-840A-1
7	14.4	80.0	87350	3 US-08-781-891-79
8	14.4	80.0	87543	4 US-09-791-211-3
9	14.4	80.0	4403765	4 US-09-103-840A-2
10	14.4	80.0	4411529	4 US-09-103-840A-1
11	13.8	76.7	219	1 US-08-005-575-21
12	13.8	76.7	2419	1 US-07-807-033B-7
13	13.8	76.7	2419	1 US-08-299-849B-7
14	13.8	76.7	2419	2 US-08-142-849B-7
15	13.8	76.7	2419	3 US-08-967-721-7
16	13.8	76.7	2419	4 US-08-037-220D-7
17	13.8	76.7	2420	1 US-08-465-107A-23
18	13.8	76.7	2420	4 US-09-056-105-4
19	13.8	76.7	2420	4 US-08-627-820-23
20	13.8	76.7	2420	1 US-08-056-200-109
21	13.8	76.7	2420	2 US-08-800-644-109
22	13.8	76.7	3027	2 US-09-132-619-9
23	13.8	76.7	3027	3 US-09-282-893B-9
24	13.8	76.7	3027	4 US-09-510-654-9
25	13.8	76.7	3283	4 US-09-061-709-8
26	13.8	76.7	3412	4 US-09-061-709-6
27	13.8	76.7	3531	1 US-08-530-492-3

ALIGNMENTS

RESULT 1

US-09-101-146-44

; Sequence 44, Application US/09101146

; Patent No. 6124125

; GENERAL INFORMATION:

APPLICANT: Dartmouth College, St. Vincents Institute of

APPLICANT: Medical Research, Kemp et al.

TITLE OF INVENTION: No. 6124125el AMP Activated Protein Kinase

NUMBER OF SEQUENCES: 64

CORRESPONDENCE ADDRESS:

ADDRESSEE: Jane Massey Licata, Esq.

STREET: 66 E. Main Street

CITY: Marlton

STATE: NJ

ZIP: 08053

COUNTRY: USA

COMPUTER READABLE FORM:

MEDIUM TYPE: DISKETTE, 3.5 INCH, 1.44 MB STORAGE

COMPILER: IBM PC

OPERATING SYSTEM: WINDOWS 95

SOFTWARE: WORDPERFECT 6.0 FOR WINDOWS

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/011,146

FILING DATE: October 7, 1998

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: PNT4450

FILING DATE: 8 JAN 1995

ATTORNEY/AGENT INFORMATION:

NAME: Jane Massey Licata

REGISTRATION NUMBER: 32,257

CLASSIFICATION: 44:

SEQUENCE CHARACTERISTICS:

SEQUENCE LENGTH: 1647

REFERENCE/DOCKET NUMBER: DC-0050

TELECOMMUNICATION INFORMATION:

TELEPHONE: (856) 810-1515

TELEFAX: (856) 810-1454

INFORMATION FOR SEQ ID NO: 44:

SEQUENCE STRANDEDNESS: Single

SEQUENCE TOPOLOGY: Linear

ANTI-SENSE: NO

SEQUENCE LENGTH: 1647;

Query Match score 15.4; DB 3; length 1647;

Best Local Similarity 94.1%; pred. No. 32;

Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Sequence 1, Appli

Sequence 2, Appli

Sequence 3, Appli

Sequence 4, Appli

Sequence 5, Appli

Sequence 6, Appli

Sequence 7, Appli

Sequence 8, Appli

Sequence 9, Appli

Sequence 10, Appli

Sequence 11, Appli

Sequence 12, Appli

Sequence 13, Appli

Sequence 14, Appli

Sequence 15, Appli

Sequence 16, Appli

Sequence 17, Appli

Sequence 18, Appli

Sequence 19, Appli

Sequence 20, Appli

Sequence 21, Appli

Sequence 22, Appli

Sequence 23, Appli

Sequence 24, Appli

Sequence 25, Appli

Sequence 26, Appli

Sequence 27, Appli

Sequence 28, Appli

Sequence 29, Appli

Sequence 30, Appli

Sequence 31, Appli

Sequence 32, Appli

Sequence 33, Appli

Sequence 34, Appli

Sequence 35, Appli

Sequence 36, Appli

Sequence 37, Appli

Sequence 38, Appli

Sequence 39, Appli

Sequence 40, Appli

Sequence 41, Appli

Sequence 42, Appli

Sequence 43, Appli

Sequence 44, Appli

Sequence 45, Appli

Db 78 CTCGGGAAACTGAGG 94
RESULT 2
US-09-166-350-27
Sequence 27, Application US/09166350A
; Patent No. 6430663
; GENERAL INFORMATION:
; APPLICANT: Scanlan, Matthew
; APPLICANT: Chen, Yao
; APPLICANT: Stockert, Elisabeth
; APPLICANT: Old, Lloyd
; APPLICANT: Jager, Eike
; TITLE OF INVENTION: Real Cancer Associated Antigens and
; Title of Invention: Uses Therefor
; FILE REFERENCE: LO4617/051
; CURRENT APPLICATION NUMBER: US/09/166, 350A
; CURRENT FILING DATE: 1998-10-05
; EARLIER APPLICATION NUMBER: US 09/166, 350
; EARLIER FILING DATE: 1998-10-05
; NUMBER OF SEQ ID NOS: 35
; SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO: 27
; LENGTH: 6773
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-166-350-27
Query Match Best Local Similarity 85.6%; Score 15.4; DB 4; Length 6773;
Best Local Similarity 94.1%; Pred. No. 38; Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Oy 1 GETTGGGAACATGAA 17
Db 4684 GCTCTCGGAAACAGAAG 4700

RESULT 3
US-08-846-111D-15
Sequence 15, Application US/08846111D
; Sequence 15, Application US/08846111D
; Patent No. 6017705
; GENERAL INFORMATION:
; APPLICANT: Lurquin, Christophe; Brasseur, Francis;
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Which Are Members Of The Mage-B Family And Uses Thereof
; TITLE OF INVENTION: Isolated Nucleic Acid Molecules Which Are Members Of The Mage-B Family And Uses Thereof
; NUMBER OF SEQUENCES: 18
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Felfe & Lynch
; STREET: 805 Third Avenue
; CITY: New York City
; STATE: New York
; ZIP: 10022-7513
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.5 inch, 360 kb storage
; COMPUTER: IBM
; OPERATING SYSTEM: PC-DOS
; SOFTWARE: Wordperfect For DOS 6.0b
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/443, 077
; FILING DATE: 26-Jun-2001
; CLASSIFICATION: <Unknown>
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 08-846, 111
; FILING DATE: <Unknown>
; APPLICATION NUMBER: 08/403, 388
; FILING DATE: 14-MARCH-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Hanson, No. 6392016man D.
; REGISTRATION NUMBER: 30, 946
; REFERENCE/DOCKET NUMBER: LUD 5444.1
; INFORMATION FOR SEQ ID NO: 15:
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; LENGTH: 40352 base pairs
; SEQUENCE CHARACTERISTICS:
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-846-111D-15
Query Match Best Local Similarity 83.3%; Score 15; DB 4; Length 40352;
Best Local Similarity 100.0%; Pred. No. 76; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 2 CTCGGGAAACTGAA 16
Db 32274 CTCGGGAAACTGAA 32288

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 688-9200
; TELEFAX: (212) 838-3884
; INFORMATION FOR SEQ ID NO: 15:
; LENGTH: 40352 base pairs
; SEQUENCE CHARACTERISTICS:
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-09-443-077-15
Query Match Best Local Similarity 83.3%; Score 15; DB 3; Length 40352;
Best Local Similarity 100.0%; Pred. No. 76; Matches 15; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 2 CTCGGGAAACTGAA 16
Db 32274 CTCGGGAAACTGAA 32288

RESULT 5 US-09-103-840A-2/c

; Sequence 2, Application US/09103840A

; Patent No. 6294328

; GENERAL INFORMATION:

; APPLICANT: FLEISCHMAN, Robert D.

; APPLICANT: WHITE, Owen R.

; APPLICANT: FRASER, Claire M.

; APPLICANT: VENTER, John C.

; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM

; FILE REFERENCE: 24366-20007.00

; CURRENT APPLICATION NUMBER: US/09/103, 840A

; CURRENT FILING DATE: 1998-05-24

; NUMBER OF SEQ ID NOS: 2

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO: 2

; LENGTH: 4403765

; TYPE: DNA

; ORGANISM: Mycobacterium tuberculosis

; FEATURE: OTHER INFORMATION: CDC 1551

; OTHER INFORMATION: "n" bases at various positions throughout the sequence

; OTHER INFORMATION: represent a, t, c or g

US-09-103-840A-2

Query Match Score 82.2%; DB 4; Length 4403765;

Best Local Similarity 88.9%; Pred. No. 64;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCTTCGGAACTGAGG 18

Db 1603115 GCATCGGGACACTGAAG 1603098

RESULT 6 US-09-103-840A-1/c

; Sequence 1, Application US/09103840A

; Patent No. 6294328

; GENERAL INFORMATION:

; APPLICANT: FLEISCHMAN, Robert D.

; APPLICANT: WHITE, Owen R.

; APPLICANT: FRASER, Claire M.

; APPLICANT: VENTER, John C.

; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM

; FILE REFERENCE: 24366-20007.00

; CURRENT APPLICATION NUMBER: US/09/103, 840A

; CURRENT FILING DATE: 1998-06-24

; NUMBER OF SEQ ID NOS: 2

; SOFTWARE: Patentin Ver. 2.1

; SEQ ID NO: 1

; LENGTH: 4411529

; TYPE: DNA

; ORGANISM: Mycobacterium tuberculosis

; OTHER INFORMATION: H37Rv

US-09-103-840A-1

Query Match Score 82.2%; DB 4; Length 4411529;

Best Local Similarity 88.9%; Pred. No. 64;

Matches 16; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GCTTCGGAACTGAGG 18

Db 1603280 GCATCGGGACACTGAAG 1603263

RESULT 7 US-08-781-891-79/c

; Sequence 79, Application US/08781891

; Patent No. 6090620

RESULT 8 US-09-791-211-3/c

; Sequence 3, Application US/09791211

; Patent No. 6448080

; GENERAL INFORMATION:

; APPLICANT: Donna T. Ward

; APPLICANT: Andrew T. Watt

; TITLE OF INVENTION: AMISENSE MODULATION OF WRN EXPRESSION

; FILE REFERENCE: RTS-0205

; CURRENT APPLICATION NUMBER: US/09/791, 211

; CURRENT FILING DATE: 2001-02-23

; NUMBER OF SEQ ID NOS: 90

; SEQ ID NO: 3

; LENGTH: 87543

; TYPE: DNA

; ORGANISM: Homo sapiens

; FEATURE: NAME/KEY: unsure

; LOCATION: 7421

; OTHER INFORMATION: unknown

; NAME/KEY: unsure

; LOCATION: 7427

; OTHER INFORMATION: unknown

; NAME/KEY: unsure

LOCATION: 11609
 OTHER INFORMATION: unknown
 NAME/KEY: unsure
 LOCATION: 12605
 OTHER INFORMATION: unknown
 NAME/KEY: unsure
 LOCATION: 12742
 OTHER INFORMATION: unknown
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OTHER INFORMATION: unknown
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 NAME/KEY: unsure
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 OTHER INFORMATION: unknown
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 NAME/KEY: unsure
 LOCATION: 79134
 OTHER INFORMATION: unknown
 NAME/KEY: unsure
 LOCATION: 79198
 OTHER INFORMATION: unknown
 NAME/KEY: unsure
 LOCATION: 86336
 OTHER INFORMATION: unknown
 OTHER INFORMATION:

US-09-791-211-3

Query Match 80.0% Score 144; DB 4; Length 87543;
 Best Local Similarity 93.8%; Pred. No. 1.7e+02; 1; Mismatches 0; Indels 0; Gaps 0;

OY 2 CTTCCGGAACTGAG 17

Db 76617 CTTCCGGAACTGAG 176602

RESULT 9
 US-09-103-840A-2
 ; Sequence 2, Application US/09103840A
 ; Patent No. 6294128
 ; GENERAL INFORMATION:
 ; APPLICANT: FLEISCHMAN, Robert D.

APPLICANT: WHITE, Owen R.
 APPLICANT: FRASER, Claire M.
 APPLICANT: VENTER, John C.
 TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
 FILE REFERENCE: 24366-20007.00
 CURRENT APPLICATION NUMBER: US/09/103,840A
 CURRENT FILING DATE: 1998-06-24
 NUMBER OF SEQ ID NOS: 2
 SEQ ID NO 2
 LENGTH: 4403765
 TYPE: DNA
 ORGANISM: Mycobacterium tuberculosis
 FEATURE:
 OTHER INFORMATION: CDC 1551
 OTHER INFORMATION: "n" bases at various positions throughout the sequence
 US-09-103-840A-2

Query Match 80.0%; Score 14.4; DB 4; Length 4403765;
 Best Local Similarity 93.8%; Pred. No. 6B; Mismatches 1; Indels 0; Gaps 0;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 TTCGGGAACTGAGG 18
 Db 429374 TTTCGGGAACATGATG 429389

RESULT 10
 US-09-103-840A-1
 Sequence 1, Application US/09103840A
 ;
 Patent No. 6284328
 ;
 GENERAL INFORMATION:
 ;
 APPLICANT: FLEISCHMAN, Robert D.
 APPLICANT: WHITE, Owen R.
 APPLICANT: FRASER, Claire M.
 APPLICANT: VENTER, John C.
 TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
 FILE REFERENCE: 24366-20007.00
 CURRENT APPLICATION NUMBER: US/09/103,840A
 CURRENT FILING DATE: 1998-06-24
 NUMBER OF SEQ ID NOS: 2
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 1
 LENGTH: 4411529
 TYPE: DNA
 ORGANISM: Mycobacterium tuberculosis
 OTHER INFORMATION: H37Rv
 US-09-103-840A-1

Query Match 80.0%; Score 14.4; DB 4; Length 4411529;
 Best Local Similarity 93.8%; Pred. No. 6B; Mismatches 1; Indels 0; Gaps 0;
 Matches 15; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 3 TTTCGGGAACATGAGG 18
 Db 429291 TTTCGGGAACATGATG 429306

RESULT 11
 US-08-700-575-21
 Sequence 21, Application US/08700575
 ;
 Patent No. 5817479
 ;
 General Information:
 ;
 APPLICANT: Au-Young, Janice
 APPLICANT: Bandman, Olga
 APPLICANT: Hawkins, Phillip R.
 APPLICANT: Wilde, Craig G.
 TITLE OF INVENTION: NOVEL HUMAN KINASE HOMOLOGS
 NUMBER OF SEQUENCES: 45
 CORRESPONDENCE ADDRESS:

ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
 STREET: 3174 PORTER DRIVE
 CITY: PALO ALTO
 STATE: CA
 COUNTY: USA
 ZIP: 94304
 COMPUTER READABLE FORM:
 COMPUTER: Floppy disk
 OPERATING SYSTEM: PC-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/700,575
 FILING DATE:
 CLASSIFICATION: 424
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 07/764,364
 FILING DATE: 23-SEPTEMBER-1991
 PRIORITY APPLICATION DATA:
 APPLICATION NUMBER: 07/728,838
 FILING DATE: 9-JULY-1991

PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/705,702
 FILING DATE: 23-MAY-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 5342774man D.
 REFERENCE/DOCKET NUMBER: 30,946
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 688-9200
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2419 base pairs
 TYPE: NUCLEIC ACID
 STRANDEDNESS: singular
 TOPOLOGY: linear
 MOLECULE TYPE: genomic DNA
 US-07-807-043B-7

Query Match 76.7%; Score 13.8; DB 1; Length 2419;
 Best Local Similarity 88.2%; Pred. No. 2, 3e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GCTTCGGGAACCTGAG 17
 Db 2361 GCCTTGGAACCTGCAG 2377

RESULT 13
 US-08-299-849B-7
 Sequence 7, Application US/08299849B
 ;
 ;
 GENERAL INFORMATION:
 APPLICANT: De Plaein, Etienne; Boon-Falleur, Thierry;
 APPLICANT: Leth, Bernard; Szikora, Jean-Pierre; De Smet, Charles;
 APPLICANT: Chomez, Patrick
 TITLE OF INVENTION: Isolated Nucleic Acid Molecules Useful In
 NUMBER OF SEQUENCES: 48
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Felte & Lynch
 STREET: 805 Third Avenue
 CITY: New York City
 STATE: New York
 ZIP: 10022
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 COMPUTER: IBM
 OPERATING SYSTEM: PC-DOS
 SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/299,849B
 FILING DATE: 1-SEPTEMBER-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 08/037,230
 FILING DATE: 26-MARCH-1993
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/04354
 FILING DATE: 22-MAY-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/807,043
 FILING DATE: 12-DECEMBER-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/764,364
 FILING DATE: 23-SEPTEMBER-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/728,838
 APPLICATION NUMBER: 9-JULY-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/705,702
 FILING DATE: 23-May-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 592579man D.
 REFERENCE/DOCKET NUMBER: 30,946
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 688-9200
 INFORMATION FOR SEQ ID NO: 7:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 2419 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: genomic DNA
 US-08-299-849B-7

Query Match 76.7%; Score 13.8; DB 1; Length 2419;
 Best Local Similarity 88.2%; Pred. No. 2, 3e+02;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GCTTCGGGAACCTGAG 17
 Db 2361 GCCTTGGAACCTGCAG 2377

RESULT 14
 US-08-142-368A-7
 Sequence 7, Application US/08142368A
 ;
 ;
 GENERAL INFORMATION:
 PATENT NO. 5925729
 APPLICANT: Bon-Falleur, Thierry; van der Bruggen, Thierry;
 APPLICANT: Van den Eynde, Beno t; van Pel, Alme; De Plaein, Etienne;
 APPLICANT: Lurquin, Christophe; Chomez, Patrick; Traversari, Catia
 TITLE OF INVENTION: Tumor Rejection Antigen Precursors, Tumor
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Felte & Lynch
 STREET: 805 Third Avenue
 CITY: New York City
 STATE: New York
 ZIP: 10022
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage
 COMPUTER: IBM
 OPERATING SYSTEM: PC-DOS
 SOFTWARE: Wordperfect
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/142,368A
 FILING DATE: 02-MAY-1994
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: PCT/US92/04354
 FILING DATE: 22-MAY-1992
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/807,043
 FILING DATE: 12-DECEMBER-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/764,364
 FILING DATE: 23-SEPTEMBER-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/728,838
 APPLICATION NUMBER: 9-JULY-1991
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/705,702
 FILING DATE: 23-May-1991
 ATTORNEY/AGENT INFORMATION:
 NAME: Hanson, No. 592579man D.
 REFERENCE/DOCKET NUMBER: 30,946
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (212) 688-9200
 INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:
 LENGTH: 2419 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: genomic DNA
 US-08-142-368A-7

Query Match 76.7%; Score 13.8; DB 2; Length 2419;
 Best Local Similarity 88.2%; Pred. No. 2, 3e+02;
 Matches 15; Conservative 0; Mismatches 2;
 Qy 1 GCTTCGGAACTGAG 17
 Db 2361 GCCTTGGAACTGCAG 2377

RESULT 15

US-08-967-727-7

Sequence 7, Application US/08967727

Patent No. 6025474

GENERAL INFORMATION:

APPLICANT: Gaucler, B atrice; Van den Eynde, Beno t;
 ADDRESS: van der Bruggen, Pierre; Boon-Falleur, Thierry
 TITLE OF INVENTION: Isolated Nucleic Acid Molecules Coding For
 TITLE OF INVENTION: Tumor Rejection Antigen Precursor Mage-3 And Uses Thereof
 NUMBER OF SEQUENCES: 30

CORRESPONDENCE ADDRESS:

ADDRESSEE: Felfe & Lynch
 STREET: 805 Third Avenue
 CITY: New York City
 STATE: New York
 ZIP: 10022

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 5.25 inch, 360 kb storage

COMPUTER: IBM

OPERATING SYSTEM: PC-DOS

SOFTWARE: Wordperfect

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/967,727

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 08/037,230

FILING DATE: 26-MARCH-1993

APPLICATION NUMBER: PCT/US92/04354

FILING DATE: 22-MAY-1992

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/807,043

FILING DATE: 12-DECEMBER-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/764,365

FILING DATE: 23-SEPTEMBER-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/728,838

FILING DATE: 9-JULY-1991

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 07/705,702

FILING DATE: 23-MAY-1991

ATTORNEY/AGENT INFORMATION:

NAME: Hanson, No. 6025474man D.

REGISTRATION NUMBER: 30,946

REFERENCE/DOCKET NUMBER: LUD 5353

TELECOMMUNICATION INFORMATION:

TELEPHONE: (212) 688-9200

TELEFAX: (212) 838-3884

INFORMATION FOR SEQ ID NO: 7:

SEQUENCE CHARACTERISTICS:

LENGTH: 2419 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: genomic DNA

US-08-967-727-7

Query Match 76.7%; Score 13.8; DB 3; Length 2419;
 Best Local Similarity 88.2%; Pred. No. 2, 3e+02;
 Matches 15; Conservative 0; Mismatches 2;
 Indels 0; Gaps 0;

Qy 1 GCTTCGGAACTGAG 17
 Db 2361 GCCTTGGAACTGCAG 2377

Search completed: June 19, 2003, 07:34:08
 Job time : 99 secs

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score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

OM nucleic - nucleic search, using sw model

Run on: June 19, 2003, 07:34:16 ; Search time 1864 Seconds

{without alignments)
281.036 Million cell updates/sec

Title: US-09-911-860A-3
Perfect score: 18
Sequence: 1 gcttcggaaactgaagg 18

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 2054640 seqs, 14551402878 residues

Total number of hits satisfying chosen parameters: 4109280

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : GenBank:
1: gb_ba:
2: gb_hgt:
3: gb_in:
4: gb_om:
5: gb_ov:
6: gb_pat:
7: gb_ph:
8: gb_p1:
9: gb_pr:
10: gb_ro:
11: gb_sts:
12: gb_sy:
13: gb_un:
14: gb_v1:
15: em_ba:
16: em_fun:
17: em_hum:
18: em_in:
19: em_mu:
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36: em_htg_mam:
37: em_htg_vrt:
38: em_sy:
39: em_htg_hum:
40: em_htg_mus:
41: em_htg_other:

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
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3	18	100.0	584	1	AF27935	AF27935 Unculture
4	18	100.0	685	1	AF47150	AF47150 Unculture
5	18	100.0	777	1	AF388544	AF388544 Unculture
6	18	100.0	1212	6	AX039535	AX039535 Sequence
7	18	100.0	1212	6	AX039537	AX039537 Sequence
8	18	100.0	1212	6	AX039539	AX039539 Sequence
9	18	100.0	1212	6	AX039539	AX039539 Sequence
10	18	100.0	1286	1	AF27908	AF27908 Unculture
11	18	100.0	1315	1	AF388543	AF388543 Unculture
12	18	100.0	1322	1	UBA249262	UBA249262 bacterium
13	18	100.0	1331	1	AF27937	AF27937 Unculture
14	18	100.0	1335	5	AX039536	AX039536 Sequence
15	18	100.0	1377	1	AF388531	AF388531 Unculture
16	18	100.0	1377	1	AF388532	AF388532 Unculture
17	18	100.0	1377	1	AF388533	AF388533 Unculture
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34	18	100.0	1423	1	AF427907	AF427907 Unculture
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42	18	100.0	1522	1	AB015856	AB015856 Unidentif
43	18	100.0	103353	8	AC010704	AC010704 Arribidops
44	17	94.4	384	1	XN4623	XN4623 Unknown org
45	17	94.4	912	1	ARAJ3138	ARAJ3138 unidentif

ALIGNMENTS

BASE COUNT	320	a	/db_xref="taxon:61435"	source
ORIGIN				
Query Match	100.0%	Score 18;	DB 6;	Length 1212;
Best Local Similarity	100.0%	Pred. No. 68;		
Mismatches	0;	Indels 0;	Gaps 0;	
18; Conservative	0;	Mismatches 0;	Indels 0;	Gaps 0;
Oy	1	GCTTCGGAAACTGAAGG 18		rRNA
Db	112	GCTTCGGAAACTGAAGG 129		/product="16S ribosomal RNA"
RESULT 9				
AX039539				
LOCUS	AX039539	1212 bp	DNA	linear
DEFINITION	Sequence 6 from Patent WO0053443.		PAT	18-NOV-2000
AUTHORS	Hendrickson, E.R. and Ebersole, R.C.			
TITLE	Nucleic acid fragments for the identification of dechlorinating bacteria			
JOURNAL	Patent: WO 0053443-A 6 26-OCT-2000;			
E.I.	DU PONT DE NEMOURS AND COMPANY (US)			
FEATURES	Location/Qualifiers			
SOURCE	1. 1212 'organism'='Dehalococcoides ethenogenes' 'db_xref'='taxon:61435' /db_xref='taxon:61435'			
BASE COUNT	320	a	255	c
ORIGIN	371	g	266	t
RESULT 10				
AF427908				
LOCUS	AF427908	1286 bp	DNA	linear
DEFINITION	Uncultured bacterium clone 5G 16S ribosomal RNA gene, partial sequence.		BCT	16-JUL-2002
ACCESSION	AF427908			
VERSION	AF427908.1	GI:16566579		
KEYWORDS				
SOURCE	uncultured bacterium.			
ORGANISM	uncultured bacterium.			
REFERENCE	1 (bases 1 to 1266)			
AUTHORS	Richardson, R.E., Bhupathiraju, V.K., Song, D.L., Goulet, T.A. and Alvarez-Cohen, L.			
TITLE	Phylogenetic characterization of microbial communities that reductively dechlorinate TCE based upon a combination of molecular techniques			
JOURNAL	Environ. Sci. Technol. 36 (12), 2652-2662 (2002)			
MEDLINE	2209377			
PUBMED	12099461			
REFERENCE	2 (bases 1 to 1286)			
AUTHORS	Richardson, R.E., Bhupathiraju, V.K., Song, D.L., Goulet, T.A. and Alvarez-Cohen, L.			
TITLE	Direct Submission			
JOURNAL	Submitted (04-OCT-2001) Civil and Environmental Engineering, University of California at Berkeley, 631 Davis Hall, Berkeley, CA 94720-1710, USA			
FEATURES	Location/Qualifiers			
SOURCE	1. .1315 'organism'='uncultured Dehalococcoides sp.' 'db_xref'='taxon:171952' 'clone'='DHC-1nz' 'country'='USA' 'note'='isolated from chloroethene-contaminated site' <1..>1315 'product'='16S ribosomal RNA'			
BASE COUNT	343	a	279	c
ORIGIN	401	g	292	t
RESULT 12				
UBA249262				
LOCUS	UBA249262	1322 bp	DNA	linear
DEFINITION	bacterium DCEH2 16S rRNA gene.		BCT	28-AUG-2000
VERSION	AF429262			
VERSTON	1729262			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 11				
AF388543				
LOCUS	AF388543	1315 bp	DNA	linear
DEFINITION	Uncultured Dehalococcoides sp. clone DHC-1nz 16S ribosomal RNA gene, partial sequence.		BCT	29-JAN-2002
ACCESSION	AF388543			
VERSION	AF388543.1	GI:18389816		
KEYWORDS				
SOURCE	uncultured Dehalococcoides sp.			
ORGANISM	bacteria; Dehalococcoides group; Dehalococcoides; environmental samples.			
REFERENCE	1 (bases 1 to 1315)			
AUTHORS	Hendrickson, E.R., Payne, J.A., Young, R.M., Starr, M.G., Perry, M.P., Fahnestock, S., Ellis, D.E. and Ebersole, R.C.			
TITLE	Molecular Analysis of Dehalococcoides 16S ribosomal DNA from Chloroethene-Contaminated Sites throughout North America and Europe			
JOURNAL	Appl. Environ. Microbiol. 68 (2), 485-495 (2002)			
PUBLISHED	1182182			
REFERENCE	2 (bases 1 to 1315)			
AUTHORS	Hendrickson, E.R., Payne, J.A., Young, R.M., Starr, M.G., Perry, M.P., Fahnestock, S., Ellis, D.E. and Ebersole, R.C.			
TITLE	Direct Submission			
JOURNAL	Submitted (06-JUN-2001) Central R & D Corporate Center for Engineering Research, E.I. Du Pont de Nemours and Company, P.O. Box 6101, Glasgow Site, 3007318, Newark, DE 19714-6101, USA			
FEATURES	Location/Qualifiers			
SOURCE	1. .1315 'organism'='uncultured Dehalococcoides sp.' 'db_xref'='taxon:171952' 'clone'='DHC-1nz' 'country'='USA' 'note'='isolated from chloroethene-contaminated site' <1..>1315 'product'='16S ribosomal RNA'			
BASE COUNT	343	a	279	c
ORIGIN	401	g	292	t
RESULT 13				
UBA249263				
LOCUS	UBA249263	1322 bp	DNA	linear
DEFINITION	bacterium DCEH2 16S rRNA gene.		BCT	28-AUG-2000
VERSION	AF429263			
VERSTON	1729263			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 14				
UBA249264				
LOCUS	UBA249264	1322 bp	DNA	linear
DEFINITION	bacterium DCEH2 16S rRNA gene.		BCT	28-AUG-2000
VERSION	AF429264			
VERSTON	1729264			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 15				
UBA249265				
LOCUS	UBA249265	1322 bp	DNA	linear
DEFINITION	bacterium DCEH2 16S rRNA gene.		BCT	28-AUG-2000
VERSION	AF429265			
VERSTON	1729265			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 16				
UBA249266				
LOCUS	UBA249266	1322 bp	DNA	linear
DEFINITION	bacterium DCEH2 16S rRNA gene.		BCT	28-AUG-2000
VERSION	AF429266			
VERSTON	1729266			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 17				
ANAS I				
DEFINITION	16S rRNA			
VERSION	ANAS I			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 18				
ANAS II				
DEFINITION	16S rRNA			
VERSION	ANAS II			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 19				
ANAS III				
DEFINITION	16S rRNA			
VERSION	ANAS III			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 20				
ANAS IV				
DEFINITION	16S rRNA			
VERSION	ANAS IV			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 21				
ANAS V				
DEFINITION	16S rRNA			
VERSION	ANAS V			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 22				
ANAS VI				
DEFINITION	16S rRNA			
VERSION	ANAS VI			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 23				
ANAS VII				
DEFINITION	16S rRNA			
VERSION	ANAS VII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 24				
ANAS VIII				
DEFINITION	16S rRNA			
VERSION	ANAS VIII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 25				
ANAS IX				
DEFINITION	16S rRNA			
VERSION	ANAS IX			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 26				
ANAS X				
DEFINITION	16S rRNA			
VERSION	ANAS X			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 27				
ANAS XI				
DEFINITION	16S rRNA			
VERSION	ANAS XI			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 28				
ANAS XII				
DEFINITION	16S rRNA			
VERSION	ANAS XII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 29				
ANAS XIII				
DEFINITION	16S rRNA			
VERSION	ANAS XIII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 30				
ANAS XIV				
DEFINITION	16S rRNA			
VERSION	ANAS XIV			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 31				
ANAS XV				
DEFINITION	16S rRNA			
VERSION	ANAS XV			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 32				
ANAS XVI				
DEFINITION	16S rRNA			
VERSION	ANAS XVI			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 33				
ANAS XVII				
DEFINITION	16S rRNA			
VERSION	ANAS XVII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 34				
ANAS XVIII				
DEFINITION	16S rRNA			
VERSION	ANAS XVIII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 35				
ANAS XIX				
DEFINITION	16S rRNA			
VERSION	ANAS XIX			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 36				
ANAS XX				
DEFINITION	16S rRNA			
VERSION	ANAS XX			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 37				
ANAS XXI				
DEFINITION	16S rRNA			
VERSION	ANAS XXI			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 38				
ANAS XXII				
DEFINITION	16S rRNA			
VERSION	ANAS XXII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 39				
ANAS XXIII				
DEFINITION	16S rRNA			
VERSION	ANAS XXIII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 40				
ANAS XXIV				
DEFINITION	16S rRNA			
VERSION	ANAS XXIV			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 41				
ANAS XXV				
DEFINITION	16S rRNA			
VERSION	ANAS XXV			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 42				
ANAS XXVI				
DEFINITION	16S rRNA			
VERSION	ANAS XXVI			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 43				
ANAS XXVII				
DEFINITION	16S rRNA			
VERSION	ANAS XXVII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385	g	288	t
RESULT 44				
ANAS XXVIII				
DEFINITION	16S rRNA			
VERSION	ANAS XXVIII			
RESULTS	1	.1286		
BASE COUNT	338	a	274	c
ORIGIN	385			

KEYWORDS		rRNA		ANAS II	
SOURCE	bacterium DCEH2.	<1..>1331	/product="16S ribosomal RNA"	OY	<1..>1331
ORGANISM	bacterium DCEH2	/db_xref="taxon:103252"	/product="16S ribosomal RNA"	Db	/product="16S ribosomal RNA"
REFERENCE	1 (bases 1 to 1322)				
AUTHORS	Windfuhr,C., Mau,M., Scholz-Muramatsu,H. and Diekert,G.				
TITLE	Anaerobic reductive dechlorination of chlorinated ethenes with an enriched mixed culture - physiological characterization and community analysis				
JOURNAL	Unpublished				
REFERENCE	2 (bases 1 to 1322)				
AUTHORS	Windfuhr,C.				
TITLE	Submitted (31-AUG-1999) Windfuhr C., Institute for Sanitary Engineering, Department of Biology, University of Stuttgart, Bandtafel 2, 70569 Stuttgart, GERMANY				
FEATURES	Location/Qualifiers				
source	1. .1322				
BASE COUNT	345 a 291 c 403 g 292 t				
DEFINITION	Best Local Similarity 100.0%; Pred. No. 69; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
ACCESSION	AX039536				
VERSION	AX039536.1				
KEYWORDS					
SOURCE	Dehalococcoides ethenogenes.				
ORGANISM	Bacteria; Dehalococcoides ethenogenes.				
REFERENCE	1 (bases 1 to 1335)				
AUTHORS	Hendrickson,E.R. and Ebersole,R.C.				
TITLE	Nucleic acid fragments for the identification of dechlorinating bacteria				
JOURNAL	Patent: WO 00063443-A 3 26-OCT-2000; E.I. Du Pont de Nemours and Company (US)				
FEATURES	Location/Qualifiers				
source	1. .1335				
BASE COUNT	348 a 288 c 403 g 296 t				
DEFINITION	Query Match 100.0%; Score 18; DB 6; Length 1335; Best Local Similarity 100.0%; Pred. No. 69; Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
ACCESSION	AF039537				
VERSION	AF039537.1				
KEYWORDS					
SOURCE	uncultured bacterium.				
ORGANISM	Bacteria; environmental samples.				
REFERENCE	1 (bases 1 to 1331)				
AUTHORS	Richardson,R.E., Bhupathiraju,V.K., Song,D.L., Goulet,T.A. and Alvarez-Cohen,L.				
TITLE	Phylogenetic characterization of microbial communities that reductively dechlorinate TCE based upon a combination of molecular techniques				
JOURNAL	Environ. Sci. Technol. 36 (12), 2652-2662 (2002)				
PUBLISHER	22093797				
REFERENCE	2 (bases 1 to 1331)				
AUTHORS	Richardson,R.E., Bhupathiraju,V.K., Song,D.L., Goulet,T.A. and Alvarez-Cohen,L.				
TITLE	Direct Submission				
JOURNAL	Submitted (04-OCT-2001) Civil and Environmental Engineering, Submitted (04-OCT-2001) Civil and Environmental Engineering, University of California at Berkeley, 631 Davis Hall, Berkeley, CA 94720-1710, USA				
FEATURES	Location/Qualifiers				
source	1. .1331				
KEYWORDS	organism="uncultured bacterium"				
REFERENCE	/ab_xref="taxon:77133"				
AUTHORS	Fahnestock,S., Ellis,D.E. and Ebersole,R.C.				
TITLE	Molecular Analysis of Dehalococcoides 16S ribosomal DNA from Chloroethene Contaminated Sites throughout North America and Europe				
JOURNAL	Appl. Environ. Microbiol. 68 (2), 485-495 (2002)				
PUBLISHER	11823182				
REFERENCE	2 (bases 1 to 1377)				
AUTHORS	Hendrickson,E.R., Payne,J.A., Young,R.M., Starr,M.G., Perry,M.P., Fahnestock,S., Ellis,D.E. and Ebersole,R.C.				
TITLE	Chloroethene Contaminated Sites throughout North America and Europe				
JOURNAL	Appl. Environ. Microbiol. 68 (2), 485-495 (2002)				
PUBLISHER	11823182				
REFERENCE	2 (bases 1 to 1377)				
AUTHORS	Hendrickson,E.R., Payne,J.A., Young,R.M., Starr,M.G., Perry,M.P., Fahnestock,S., Ellis,D.E. and Ebersole,R.C.				
TITLE	Direct Submission				
JOURNAL	Submitted (06-JUN-2001) Central R & D Corporate Center for Engineering Research, E.I. Du Pont de Nemours and Company, P.O. Box 6101, Glasgow Site, 300/118, Newark, DE 19714-6101, USA				

FEATURES

source

location/Qualifiers
1 .137
/organism="uncultured Dehalococcoides sp."
/ab_xref="taxon:171952"
/clone="DHC-bmtc"
/country="USA: Beaumont, TX"
/note="isolated from chloroethene-contaminated sludge pond"
<1..>1377

rRNA

BASE COUNT

/product="16S ribosomal RNA"
361 a 299 c 413 g 304 t

ORIGIN

Query Match 100.0%; Score 18; DB 1; Length 1377;
Best Local Similarity 100.0%; Pred. No. 69;
Matches 18; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GCTTCGGAACTGAGG 18
|:|||||:|||||:|||:
Db 112 GCTTCGGGAACCTGAAGG 129

Search completed: June 19, 2003, 09:20:16
Job time : 1876 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on:

June 19, 2003, 08:25:58 ; Search time 1791 Seconds

(Without alignments)
162.769 Million cell updates/sec

Title: US-09-911-860a-3

Perfect score: 18

Sequence: 1 gtttcggaaatgttgg 18

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 16154065 seqs, 8097743376 residues

Total number of hits satisfying chosen parameters:

32308132

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : EST

EST:*

1: em_estiba:*

2: em_estin:*

3: em_estmu:*

4: em_estov:*

5: em_estpl:*

6: em_estro:*

7: em_estro:*

8: em_htc:*

9: gb_est1:*

10: gb_est2:*

11: gb_htc:*

12: gb_est3:*

13: gb_est4:*

14: gb_est5:*

15: em_estfun:*

16: em_estom:*

17: gb_gss:*

18: em_gss_hum:*

19: em_gss_inv:*

20: em_gss_pln:*

21: em_gss_vrt:*

22: em_gss_fun:*

23: em_gss_mam:*

24: em_gss_mus:*

25: em_gss_other:*

26: em_gss_pro:*

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
c 1 18 100.0	248	10	BB073520	248 bp mRNA linear EST 27-JUN-2000 RIKEN full-length enriched, adult male epididymis Mus musculus cDNA clone 9230109p19 3', mRNA sequence.
c 2 17 94.4	434	12	BB073520	RIKEN full-length enriched, adult male epididymis Mus musculus cDNA clone 9230109p19 3', mRNA sequence.
c 3 16.4	91.1	182	13	BJ528210
c 4 16.4	91.1	237	9	AV288693
c 5 16.4	91.1	243	10	BB168908
c 6 16.4	91.1	244	10	BB201074

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

ALIGNMENTS

RESULT	LOCUS	DEFINITION	ACCESSION	VERSION	KEYWORDS	SOURCE	ORGANISM
1	BB073520/C	248 bp mRNA linear EST 27-JUN-2000 RIKEN full-length enriched, adult male epididymis Mus musculus cDNA clone 9230109p19 3', mRNA sequence.	BB073520	BB073520.1	GI:8583518	EST.	mouse
2							Mus musculus
3							Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Scurognathi; Muridae; Murinae; Mus.
4							(basses 1 to 28)
5							Kondo, H., Aizawa, K., Akahira, S., Akirama, J., Arakawa, T., Carninci, P., Endo, T., Fukuda, S., Fukunishi, Y., Hara, A., Havatsu, N., Itoh, M., Hirozane, T., Hori, F., Ishii, Y., Ishikawa, J., Ishikawa, T., Kikuchi, N., Izawa, M., Kadota, K., Kawaga, I., Kai, C., Kawai, J., Yamamoto, T., Kiyosawa, H., Kojima, Y., Kondo, S., Kurihara, C., Kusabare, M., Matsuyama, T., Miki, R., Mizuno, Y., Nakamura, M., Oda, H., Okazaki, Y., Ono, T., Owa, C., Saito, H., Sakai, C., Sato, K., Shibata, K., Shiba, Y., Shigemoto, Y., Shinagawa, A., Shiraki, T., Sogabe, Y., Suganaya, Y., Suzuki, H., Suzuki, H., Tagawa, A., Takahashi, F., Tomina, N., Toya, T., Tsunoda, Y., Watanabe, S., Yamamura, T., Yamamoto, T., Yano, R., Yasuniishi, A., Yokota, T., Yoshida, K., Yoshiki, A., Yoshino, M., Muramatsu, M., and Hayashizaki, Y.
6							RIKEN Mouse ESTs (Kondo, H., et al.)
7							Unpublished (2000)
8							Contact: Yoshihide Hayashizaki
9							Laboratory for Genome Exploration Research Group, RIKEN Genomic

FEATURES	source	1. . 237
source	/organism="Mus musculus"	
1. . 182	/strain="C57BL/6J"	
/organism="Oryzias latipes"	/db_xref="taxon:8090"	
/clone="MR01SSB031013"	/clone.lib="RIKEN full-length enriched, 11 days pregnant adult female ovary and uterus"	
/clone.lib="MR01SSB CDNA"	/sex="mixture of female and male"	
/tissue.type="whole embryo"	/tissue.type="ovary and uterus"	
/dev_stage="segmentation stage 20 - 25"	/dev_stage="11 days pregnant, adult"	
BASE COUNT	/lab_host="DH10B"	
27 a	/note="Site_1: Sali; Site_2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group In Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5'-GAGAGAGAGATCCAGACCTCTTCTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5'-GAGAGAGAGATCCAGACCTCTTCTTTTTTVN 3']. cDNA was cloned into the XbaI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: Sali; 3' end: BamHI."	
ORIGIN	Db	
Query Match 91.1%; Score 16.4; DB 13; Length 182;	0;	
Best Local Similarity 94.4%; Pred. No. 9.8e+02;	1;	
Matches 17; Conservative 0; Mismatches 1;	Indels 0;	
Authors 1	Gaps 0;	
DEFINITION GCTTCGGGAACGTGAGG 18	VERSION 3.1	
LOCUS AV288693	COMMENT EST.	
ACCESSION AV288693	SOURCE house mouse.	
VERSION AV288693.1	ORGANISM MUS MUSCULUS	
KEYWORDS	REFERENCE 1 (bases 1 to 237)	
COMMENT	AUTHORS Kono,H., Aizawa,K., Akahira,S., Akiyama,J., Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N., Hirozane,T., Ishii,Y., Itoh,M., Izawa,M., Kadota,K., Kojima,Y., Koyano,S., Kuroki,I., Kusakabe,M., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H., Okazaki,Y., Owa,C., Ozawa,K., Saito,T., Sato,K., Shibata,K., Shibata,Y., Shigemoto,Y., Shiraki,T., Sogabe,Y., Sugahara,Y., Suzuki,H., Takanashi,F., Tateno,M., Tominga,N., Tsunoda,Y., Watanuki,A., Watanabe,S., Yamamura,T., Yasunishi,A., Yokota,T., Yoshiki,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.	
TITLE RIKEN Mouse ESTs (Kono,H., et al. 1999)	JOURNAL Unpublished (1999)	
COMMENT Contact: Yoshihide Hayashizaki	RESULT 4	
Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9212 Fax: 81-45-503-9212 Email: genome-res@gsc.riken.go.jp	LOCUS AV288693/c	
ACCESSION AV288693	DEFINITION RIKEN full-length enriched, 11 days pregnant adult female ovary and uterus Mus musculus cDNA clone 5033414E09, mRNA sequence.	
VERSION AV288693.1	COMMENT EST.	
KEYWORDS	SOURCE house mouse.	
COMMENT	ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinidae; Mus.	
COMMENT	REFERENCE 1 (bases 1 to 237)	
COMMENT	AUTHORS Kono,H., Aizawa,K., Akahira,S., Akiyama,J., Arakawa,T., Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N., Hirozane,T., Hori,F., Ishii,Y., Ishikawa,J., Ishikawa,T., Itoh,M., Izawa,M., Kadota,K., Kojima,Y., Koyano,S., Kurihara,C., Kusakabe,M., Kiyosawa,H., Kojima,Y., Kondo,C., Koyano,S., Kuroki,I., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H., Okazaki,Y., Owa,C., Oya,T., Saito,H., Sakai,C., Sato,K., Shibata,K., Shibata,Y., Shigemoto,Y., Shinagawa,A., Shiraki,T., Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Togawa,A., Takanashi,F., Tominga,N., Toya,T., Tsunoda,Y., Watanabe,S., Yamamura,T., Yamamuro,T., Yano,R., Yasunishi,A., Yokota,T., Yoshida,K., Yoshida,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.	
COMMENT	COMMENT RIKEN Mouse ESTs (Kono,H., et al.)	
COMMENT	COMMENT Contact: Yoshihide Hayashizaki	
COMMENT	COMMENT Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan	
FEATURES	source	1. . 237
source	/organism="Mus musculus"	
1. . 182	/strain="C57BL/6J"	
/organism="Oryzias latipes"	/db_xref="taxon:8090"	
/clone="MR01SSB031013"	/clone.lib="RIKEN full-length enriched, 11 days pregnant adult female ovary and uterus"	
/clone.lib="MR01SSB CDNA"	/sex="mixture of female and male"	
/tissue.type="whole embryo"	/tissue.type="ovary and uterus"	
/dev_stage="segmentation stage 20 - 25"	/dev_stage="11 days pregnant, adult"	
BASE COUNT	/lab_host="DH10B"	
27 a	/note="Site_1: Sali; Site_2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group In Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5'-GAGAGAGAGATCCAGACCTCTTCTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5'-GAGAGAGAGATCCAGACCTCTTCTTTTTTVN 3']. cDNA was cloned into the XbaI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: Sali; 3' end: BamHI."	
ORIGIN	Db	
Query Match 91.1%; Score 16.4; DB 9; Length 237;	0;	
Best Local Similarity 94.4%; Pred. No. 1e+03;	1;	
Matches 17; Conservative 0; Mismatches 1;	Indels 0;	
Authors 1	Gaps 0;	
DEFINITION GCTTCGGGAACGTGAGG 18	VERSION 3.1	
LOCUS BB168908	COMMENT EST.	
ACCESSION BB168908	SOURCE house mouse.	
VERSION BB168908.1	COMMENT EST.	
KEYWORDS	ORGANISM MUS MUSCULUS	
COMMENT	REFERENCE 1 (bases 1 to 243)	
COMMENT	AUTHORS Kono,H., Aizawa,K., Akahira,S., Akiyama,J., Arakawa,T., Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N., Hirozane,T., Hori,F., Ishii,Y., Ishikawa,J., Ishikawa,T., Itoh,M., Izawa,M., Kadota,K., Kojima,Y., Koyano,S., Kurihara,C., Kusakabe,M., Kiyosawa,H., Kojima,Y., Kondo,C., Koyano,S., Kuroki,I., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H., Okazaki,Y., Owa,C., Oya,T., Saito,H., Sakai,C., Sato,K., Shibata,K., Shibata,Y., Shigemoto,Y., Shinagawa,A., Shiraki,T., Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Togawa,A., Takanashi,F., Tominga,N., Toya,T., Tsunoda,Y., Watanabe,S., Yamamura,T., Yamamuro,T., Yano,R., Yasunishi,A., Yokota,T., Yoshida,K., Yoshida,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.	
COMMENT	COMMENT RIKEN Mouse ESTs (Kono,H., et al.)	
COMMENT	COMMENT Contact: Yoshihide Hayashizaki	
COMMENT	COMMENT Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan	
FEATURES	source	1. . 237
source	/organism="Mus musculus"	
1. . 182	/strain="C57BL/6J"	
/organism="Oryzias latipes"	/db_xref="taxon:8090"	
/clone="MR01SSB031013"	/clone.lib="RIKEN full-length enriched, 11 days pregnant adult female ovary and uterus"	
/clone.lib="MR01SSB CDNA"	/sex="mixture of female and male"	
/tissue.type="whole embryo"	/tissue.type="ovary and uterus"	
/dev_stage="segmentation stage 20 - 25"	/dev_stage="11 days pregnant, adult"	
BASE COUNT	/lab_host="DH10B"	
27 a	/note="Site_1: Sali; Site_2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group In Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5'-GAGAGAGAGATCCAGACCTCTTCTTTTTTVN 3'], cDNA was prepared by using trehalose thermo-activated reverse transcriptase and subsequently enriched for full-length by cap-trapper. cDNA went through one round of normalization to Rot = 10.0 and subtraction to Rot = 100.0. Second strand cDNA was prepared with the primer adapter of sequence [5'-GAGAGAGAGATCCAGACCTCTTCTTTTTTVN 3']. cDNA was cloned into the XbaI and BamHI sites. Vector: a modified pBluescript KS(+) after bulk excision from Lambda FLC I. Cloning sites, 5' end: Sali; 3' end: BamHI."	
ORIGIN	Db	
Query Match 91.1%; Score 16.4; DB 9; Length 237;	0;	
Best Local Similarity 94.4%; Pred. No. 1e+03;	1;	
Matches 17; Conservative 0; Mismatches 1;	Indels 0;	
Authors 1	Gaps 0;	
DEFINITION GCTTCGGGAACGTGAGG 18	VERSION 3.1	
LOCUS BB168908	COMMENT EST.	
ACCESSION BB168908	SOURCE house mouse.	
VERSION BB168908.1	COMMENT EST.	
KEYWORDS	ORGANISM MUS MUSCULUS	
COMMENT	REFERENCE 1 (bases 1 to 243)	
COMMENT	AUTHORS Kono,H., Aizawa,K., Akahira,S., Akiyama,J., Arakawa,T., Carninci,P., Endo,T., Fukuda,S., Fukunishi,Y., Hara,A., Hayatsu,N., Hirozane,T., Hori,F., Ishii,Y., Ishikawa,J., Ishikawa,T., Itoh,M., Izawa,M., Kadota,K., Kojima,Y., Koyano,S., Kurihara,C., Kusakabe,M., Kiyosawa,H., Kojima,Y., Kondo,C., Koyano,S., Kuroki,I., Matsuyama,T., Miki,R., Mizuno,Y., Nakamura,M., Oda,H., Okazaki,Y., Owa,C., Oya,T., Saito,H., Sakai,C., Sato,K., Shibata,K., Shibata,Y., Shigemoto,Y., Shinagawa,A., Shiraki,T., Sogabe,Y., Sugahara,Y., Suzuki,H., Suzuki,H., Togawa,A., Takanashi,F., Tominga,N., Toya,T., Tsunoda,Y., Watanabe,S., Yamamura,T., Yamamuro,T., Yano,R., Yasunishi,A., Yokota,T., Yoshida,K., Yoshida,A., Yoshino,M., Muramatsu,M. and Hayashizaki,Y.	
COMMENT	COMMENT RIKEN Mouse ESTs (Kono,H., et al.)	
COMMENT	COMMENT Contact: Yoshihide Hayashizaki	
COMMENT	COMMENT Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan	

RESULT	7
LOCUS	BB229355/C
DEFINITION	BB229355 RIKEN full-length enriched, 3 days neonate thymus mRNA sequence.
ACCESSION	BB229355
VERSION	BB229355.1
SOURCE	Mus musculus
KEYWORDS	house mouse.
TITLE	EST.
JOURNAL	Unpublished (2000)
COMMENT	Contact: Yoshihide Hayashizaki Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute The Institute of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9222 Fax: 81-45-503-9216 Email: genome.res@gsc.riken.go.jp/ URL: http://genome.gsc.riken.go.jp/ Carninci,P., Nishiyama,Y., Westover,A., Itoh,M., Nagaoka,S., Sasaki,N., Okazaki,Y., Muramatsu,M. and Hayashizaki,Y. Thermostabilization and thermoactivation of thermolabile enzymes by trehalose and its application for the synthesis of full length cDNA. Proc. Natl. Acad. Sci. U.S.A. 95 (2), 520-524 (1998) Itoh,M., Kitsunai,T., Akiyama,J., Shibata,K., Izawa,M., Kawai,J., Tomaru,Y., Carninci,P., Shiba,Y., Ozawa,Y., Muramatsu,M., Okazaki,Y. and Hayashizaki,Y. Automated filtration-based high-throughput plasmid preparation system. Genome Res. 9 (5), 463-470 (1999) Carninci,P. and Hayashizaki,Y. High-efficiency full-length cDNA cloning. Methods Enzymol. 303, 19-44 (1999) Please visit our web site (http://genome rtc.riken.go.jp) for further details.
FEATURES	Location/Qualifiers
Source	<p>1. 276</p> <p>/organism="Mus musculus" >db_xref="taxon:1090" >clone="AG30020P19" /clone lib="RIKEN full-length enriched, 3 days neonate thymus" /tissue_type="thymus" /dev_stage="3 days neonate" /lab_host="DH10B" /note="Site_1: Sall; Site_2: BamHI; cDNA library was prepared and sequenced in Mouse Genome Encyclopedia project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. 1st strand cDNA was primed with a primer [5' GAGAGAGAGGAGTCACAGCTCTTTRTTTWN 3'], cDNA was prepared by using trehalose modified pBluescript KS(+) after bulk excision from Lambda FLC 1." /tissue_type="thymus" /dev_stage="3 days neonate" /clone lib="RIKEN full-length enriched, 3 days neonate thymus" /tissue_type="thymus" /dev_stage="3 days neonate"</p>
BASE COUNT	65 a 54 c 42 g 115 t
ORIGIN	
RESULT	8
Query Match	91.1%
Best Local Similarity	94.4%
Matches	17; Conservative
Qy	1 GCTTCGGAAACTGAAGG 18
Db	583 GCTTCGGAAACTGCAGG 600
REFERENCE	
AUTHORS	
DEFINITION	
ACCESSION	
VERSION	
BASE COUNT	65 a 54 c 42 g 115 t
ORIGIN	
RESULT	8
Query Match	91.1%
Best Local Similarity	94.4%
Matches	0; Mismatches 1; Indels 0; Gaps 0;
Qy	1 GCTTCGGAAACTGAAGG 18
Db	128 GCTTCGGAAACTGAGGG 111
REFERENCE	
AUTHORS	
DEFINITION	
ACCESSION	
VERSION	
BASE COUNT	150 a 163 c 163 g 150 t
ORIGIN	
RESULT	9
Query Match	91.1%
Best Local Similarity	94.4%
Matches	17; Conservative
Qy	1 GCTTCGGAAACTGAAGG 18
Db	583 GCTTCGGAAACTGCAGG 600
REFERENCE	
AUTHORS	
DEFINITION	
ACCESSION	
VERSION	
RESULT	9
LOCUS	BG934343
DEFINITION	PMD-HT1166-130201-003-f03 HT1166 Homo sapiens cDNA, mRNA sequence.
ACCESSION	BG94343
VERSION	BG94343.1 GI:14398413

KEYWORD	EST.
SOURCE	human.
ORGANISM	<i>Homo sapiens</i>
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
AUTHORS	Dias Neto, E., Garcia Correa, R., Verjovski-Almeida, S., Brilenes, M.R., Nagai, M.A., da Silva, W. Jr., Zago, M.A., Bordim, S., Costa, F.F., Goldman, G.H., Carvalho, A.F., Matsukuma, A., Baia, G.S., Simpson, D.H., Brustein, A., de Oliveira, P.S., Bucher, P., Jongeneel, C.V., O'Hare, M.J., Soares, P., Brentani, R.R., Reis, L.F., de Souza, S.J. and Simpson, A.J.
TITLE	Shotgun sequencing of the human transcriptome with ORF expressed sequence tags
JOURNAL	Proc. Natl. Acad. Sci. U.S.A. 97 (7), 3491-3496 (2000)
MEDLINE	20020663
COMMENT	Contact: Simpson A.J.G. Laboratory of Cancer Genetics Ludwig Institute for Cancer Research Rua Prof. Antonio Prudente 109, 4 andar, 01509-010, Sao Paulo-SP, Brazil Tel: +55-11-2704922 Fax: +55-11-2707001 Email: asimpson@ludwig.org.br
FEATURES	This sequence was derived from the FAPESP/LICR Human Cancer Genome Project. This entry can be seen in the following URL (http://www.ludwig.org.br/scripts/gethtml2.pl?ti=PM0&t2=PM0-HR1166-130201-003-f03st3-2001-02-13st4-1)
source	Seq primer: puc 18 forward High quality sequence stop: 593.
FEATURES	Location/Qualifiers
source	1. l. 637 /organism="Homo sapiens" /db_xref="taxon:9606" /clone_id="NM1166" /dev_stage="adult". /note="Organ: head-neck; Vector: puc18; site_1: SmarI; site_2: Small; A mini-library was made by cloning products derived from ORESSES PCR (U.S. Letters Patent application No. 196,716 - Ludwig Institute for Cancer Research) Profiles were made in the pUC 18 vector. Reverse transcription of tissue mRNA and cDNA amplification were performed under low stringency conditions.".
BASE COUNT	146 a 190 c 175 g 126 t
ORIGIN	
RESULT	11
ORIGIN	BH729453
LOCUS	BH729453
DEFINITION	BO_2_3_KB <i>Brassica oleracea</i> genomic clone BOMGB67, DNA sequence.
ACCESSION	BH729453
VERSION	1
KEYWORDS	GI:18834848
SOURCE	GSS.
ORGANISM	<i>Brassica oleracea</i>
REFERENCE	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; eudicots; core eudicots; Rosidae; eurosids II; Brassicales; Brassicaceae; Brassica.
AUTHORS	I (bases 1 to 691) Town,C.D., Van Aken,S., Utterback,T. and Fraser,C.M.
TITLE	Whole genome shotgun sequencing of <i>Brassica oleracea</i>
JOURNAL	Unpublished (2001)
COMMENT	Contact: Chris Town
FEATURES	TIGR
source	9712 Medical Center Drive, Rockville, MD 20850, USA. tel: 301-838-3523 fax: 301-838-0208 Email: cdtown@tigr.org
BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
RESULT	10
ORIGIN	BH011936
LOCUS	BH011936
DEFINITION	643 bp mRNA linear EST 05-DEC-2001
ACCESSION	BH011936
VERSION	BH011936.1
KEYWORDS	GI:17360330
EST	
SOURCE	Japanese medaka.
ORGANISM	<i>Oryzias latipes</i>
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Neoteleostei; Actanthomorpha; Acanthopterygii; Percormorpha; Atherinomorpha; Belontiformes; Adrianichthyidae; Oryziinae; Oryziidae.
AUTHORS	1 (bases 1 to 643)
TITLE	Kohara,Y., Shin-i,T., Kimura,T., Narita,T., Jindo,T. and Takeda,H.
JOURNAL	Medaka EST Project in Takeda's lab Unpublished (2001)
FEATURES	Location/Qualifiers
source	1. . 691 /organism="Brassica oleracea" /strain="TOL000003" /db_xref="taxon:3712" /clone="BOMGB67" /clone_id="Bo_2_3_KB" /note="Vector: PHOS1; Site_1: BstXI; 2-3 kb sheared genomic DNA inserted into PHOS1 using BstXI linkers"
BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
RESULT	9
ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tadasu Shin-i Center For Genetic Resource Information National Institute of Genetics 111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6855 Fax: 81-559-81-6855 Email: tshin-i@genes.nig.ac.jp
FEATURES	Location/Qualifiers
source	1. . 643 /organism="Oryzias latipes" /strain="Hd-IR" /db_xref="taxon:8080" /clone="NP01SSA169C01" /clone_id="NP01SSA CDNA" /sex="mixture of female and male" /tissue_type="whole embryo" /dev_stage="segmentation stage 20 - 25"
BASE COUNT	158 a 166 c 166 g 153 t
ORIGIN	
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LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
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BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
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ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
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REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
source	1. . 691 /organism="Brassica oleracea" /strain="TOL000003" /db_xref="taxon:3712" /clone="BOMGB67" /clone_id="Bo_2_3_KB" /note="Vector: PHOS1; Site_1: BstXI; 2-3 kb sheared genomic DNA inserted into PHOS1 using BstXI linkers"
BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
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ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
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BASE COUNT	161 a 165 c 153 g 212 t
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DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
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ORIGIN	QY
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ACCESSION	1
VERSION	1
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JOURNAL	
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FEATURES	Location/Qualifiers
source	1. . 691 /organism="Brassica oleracea" /strain="TOL000003" /db_xref="taxon:3712" /clone="BOMGB67" /clone_id="Bo_2_3_KB" /note="Vector: PHOS1; Site_1: BstXI; 2-3 kb sheared genomic DNA inserted into PHOS1 using BstXI linkers"
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ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
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ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
source	1. . 691 /organism="Brassica oleracea" /strain="TOL000003" /db_xref="taxon:3712" /clone="BOMGB67" /clone_id="Bo_2_3_KB" /note="Vector: PHOS1; Site_1: BstXI; 2-3 kb sheared genomic DNA inserted into PHOS1 using BstXI linkers"
BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
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ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
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JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
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ORIGIN	QY
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VERSION	1
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REFERENCE	
AUTHORS	
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ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
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VERSION	1
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ORGANISM	
REFERENCE	
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COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
source	1. . 691 /organism="Brassica oleracea" /strain="TOL000003" /db_xref="taxon:3712" /clone="BOMGB67" /clone_id="Bo_2_3_KB" /note="Vector: PHOS1; Site_1: BstXI; 2-3 kb sheared genomic DNA inserted into PHOS1 using BstXI linkers"
BASE COUNT	161 a 165 c 153 g 212 t
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ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
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COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
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RESULT	9
ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
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BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
RESULT	9
ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
source	1. . 691 /organism="Brassica oleracea" /strain="TOL000003" /db_xref="taxon:3712" /clone="BOMGB67" /clone_id="Bo_2_3_KB" /note="Vector: PHOS1; Site_1: BstXI; 2-3 kb sheared genomic DNA inserted into PHOS1 using BstXI linkers"
BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
RESULT	9
ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
COMMENT	Contact: Tom Osborn DNA is from a doubled haploid provided by Tom Osborn. Seq primer: TP Class: sheared ends.
FEATURES	Location/Qualifiers
source	1. . 691 /organism="Brassica oleracea" /strain="TOL000003" /db_xref="taxon:3712" /clone="BOMGB67" /clone_id="Bo_2_3_KB" /note="Vector: PHOS1; Site_1: BstXI; 2-3 kb sheared genomic DNA inserted into PHOS1 using BstXI linkers"
BASE COUNT	161 a 165 c 153 g 212 t
ORIGIN	
RESULT	9
ORIGIN	QY
LOCUS	1
DEFINITION	GCTTCGGAACTGAGG 18
ACCESSION	1
VERSION	1
KEYWORDS	
SOURCE	
ORGANISM	
REFERENCE	
AUTHORS	
TITLE	
JOURNAL	
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